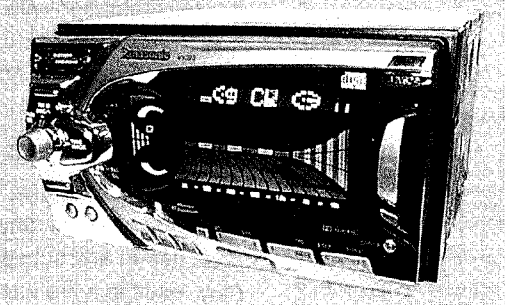
ORDER NO. ACED9911210

Service Manual

AUTOMOTIVE CONSUMER ELECTRONICS

CQ-VX303EW

Integraded CD / Cassette / Receiver with DSP



Specifications*

General

Power Supply	: 12V DC (11V - 16 V)
	Test Voltage 14.4V, Negative ground
Current Consumption	: 8.5 A (at CD operation, rated output)
Rated Output	: 16W × 4 cahnnels (1,000Hz,1%, 4Ω)
Maximum Output	: 37W × 4 cahnnels
Suitable Speaker Output	: 4Ω
Audio Input Impedance	: 10 kΩ
Audio Input Sensitivity	: 200mV (AUX IN)
Pre-out Votage	: 600mV
Pre-out Impedance	: 600Ω

DSP

Channel	: 2 chnnels (input)
	4 chnnels (output)
DSP Patterns	: 7 patterns
Equalizer Center Frequency	: 80,160, 320, 640,1.6k, 4k,10k (Hz)
Equalizer Range	: -12 dB to +12 dB (13 step)

FM Stereo Radio

Frequency Range	: 87.5 - 108.0 MHz
Usable Sensitivity	: 12 dBf.
Total Harmonic Distortion (mono)	: 0.3% (1kHz)
Signal to Noise Ratio (mono)	: 70 dB
Frequency Response	: 20 to 15,000 Hz ±3dB
Stereo Separation	: 42 dB (1 kHz)
Image Rejection Ratio	: 75 dB

MW Radio

Frequency Range	: 531 - 1,602 kHz
Usable Sensitivity	: 27 dB/μV (S/N 20 dB)
Image Rejection Ratio	: 65 dB

CD Player

Channel	: 2 channels
D/A Converter	: 16-bit linear
Frequency Response	: 5 to 20,000 Hz
Signal to Noise Ratio	: 90 dB (IHF A)
Wow and Flutter	: Below measurable limits

Cassette Player

Reproduction System	: 4-track, 2-program stereo
Tape Speed	: 4.76 cm/sec
FF/REW time	: less than 110 sec (C-60)
Frequency Response	: 30 to 14,000 Hz (Normal)
	: 30 to 17,000 Hz (Metal)
Wow and Flutter	: 0.12% (WRMS)
Signal to Noise Ratio	: 56 dB (IHF A) [Dolby B NR : OFF]
	: 66 dB (IHF A) [Dolby B NR : ON]

Dimensions** (W × H × D) : 178 × 100 × 160 (mm)

Weight** : 2.7 kg

* Specifications and the design are subject to possible modification without notice due to improvements.

** Dimensions and weight shown are approximate.

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⚠WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the products dealt with in this service information by anyone else could result in serious injury or death.

CONTENTS

FEATURES 1
REPLACING THE FUSE 1
MAINTENANCE 1
DIMENSIONS 1

<OPERATING INSTRUCTIONS>
Names of Controls 2, 3
General 3, 4
Radio Basics 4, 5
Compact Disc Player Basics 5, 6
Cassette Tape Player basics 6, 7
CD Changer Basics 7
Sound Setting Basics 8, 9
Convenient Functions 10
Other Settings 11, 12
Installation Guide 12
Electrical Connection 12, 13
Troubleshooting 13, 14
Special Notes 14

WIRING CONNECTION 15
BLOCK DIAGRAM (Main Block) 16
BLOCK DIAGRAM (Display/Interface Block) 17
BLOCK DIAGRAM (Dolby/CD Servo Block) 18
WIRING DIAGRAM (Main Block) 19, 20
WIRING DIAGRAM (Display Block) 21
WIRING DIAGRAM (Dolby Block) 22
WIRING DIAGRAM (Interface Block) 23
WIRING DIAGRAM (CD Servo Block) 24
SCHEMATIC DIAGRAM (Main Block) 25, 26
SCHEMATIC DIAGRAM (Display Block) 27, 28
SCHEMATIC DIAGRAM (Interface Block) 28
SCHEMATIC DIAGRAM (CD Servo Block) 29
SCHEMATIC DIAGRAM (Dolby Block) 30
DISASSEMBLY INSTRUCTIONS 31
TERMINALS DESCRIPTION ..... 32 to 35
PACKAGE AND IC BLOCK DIAGRAM ..... 36 to 38
REPLACEMENT PARTS LIST ..... 39 to 45, 47, 48, 50
EXPLODED VIEW (Unit) 46
EXPLODED VIEW (CD Deck) 49
EXPLODED VIEW (Tape Deck) 51

FEATURES

- 2-DIN CD/Cassette/Receiver with DSP
- 37W × 4 channels amplifire
- CD Changer control function
- Easy Operation with D.J.(Digital Joistic) Encoder
- AUX Input Connector
- 7-Band Spectrum Analizer Display

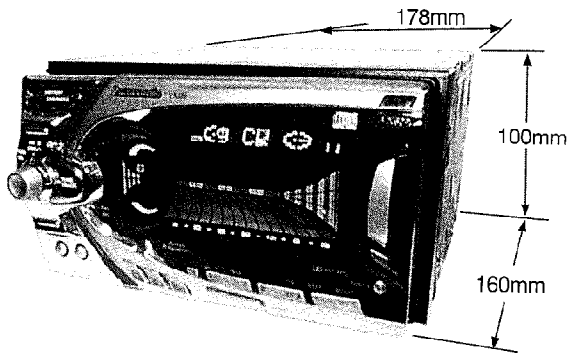
REPLACING THE FUSE

Be sure to use a fuse of the specified rating (3A) when replacing a blown fuse. Fuses with higher capacity ratings, use of any substitute, or connection without a fuse may result in a fire hazard or damage to the unit.

MAINTENANCE

Your product is designed and manufactured to ensure a minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvent.

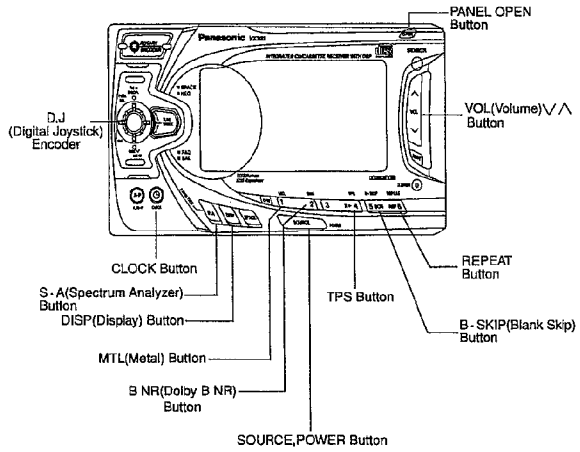
DIMENSIONS



Names of Controls

Operating Panel (Front)

■Buttons for General, Cassette (Tape) Operating

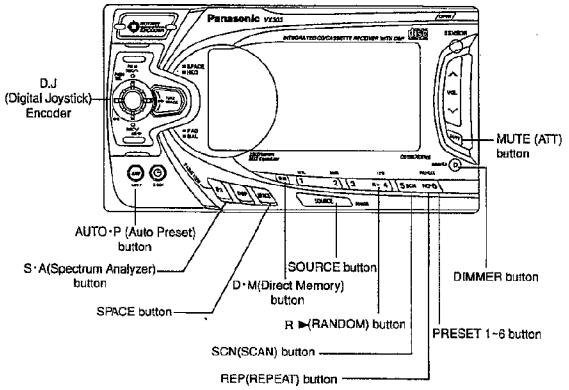


Operation of the D. J (Digital Joystick) encoder

To push, turn, rock the D.J encoder to select and set functions.

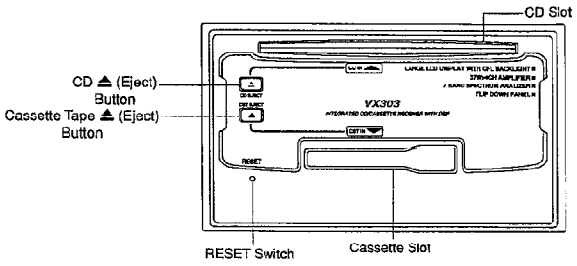
	Operation
	Turn to the left, Turn to the right. (See P.28~44)
	Rock up, down (DISC ∧ ∨)
	•Selecting a band. (See P.14)
	•Changing tape sides playing. ⇓ (See P.22)
	•To stop tape rewind / fast forward. ⇑ (See P.22)
	Rock to the left, right (TUNE <>, TRACK ◀◀ ▶▶)
	Rock to the left, right, up, down. (See P.11. 29. 32)
	Push (SEL)

■Buttons for Radio (TUNER), CD, CHANGER and other setting operating

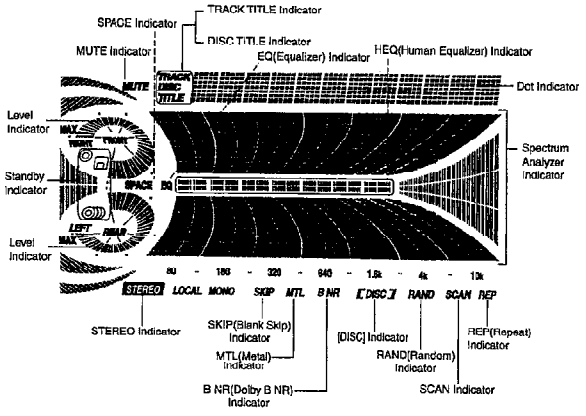


Names of Controls continued

Inner Panel



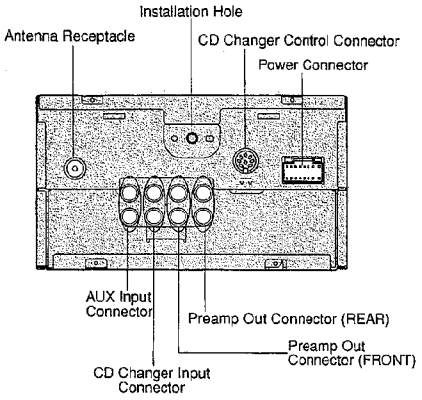
DISPLAY



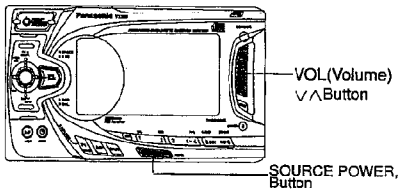
Names of Controls continued

Rear

※For wiring connection, please see P47~P48



General



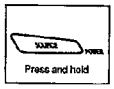
Power On

※Before operate this unit, turn the ignition key on.
Press SOURCE (POWER) to switch the power on, when you operate this unit for the first time, the tuner mode is activated and the DEMO Mode is displayed.

Note:
Because this unit can not be operated at DEMO mode, please change to the other Spectrum Analyzer except for DEMO mode. (See P36)

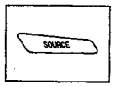
Power Off

Press and hold SOURCE (POWER) **more than one second** to switch the power off.



Selecting a Sound Source

Press SOURCE to select the sound source as follow.
(Initial Setting: TUNER)



TUNER → CD → TAPE
↑ ↓
AUX IN ← CHANGER

Note:
- If no DISC, no TAPE is inside the unit, CHANGER is disconnected or no megazine in the CHANGER, that source can not be selected.
- If AUX IN is not used, change the SOURCE setting. (See P.43)

General continued

Adjusting the Volume

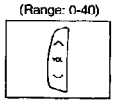
The adjusted Volume memorized for that sound source will also be changed when changing another Sound source.

Press VOL ∧ or VOL ∨

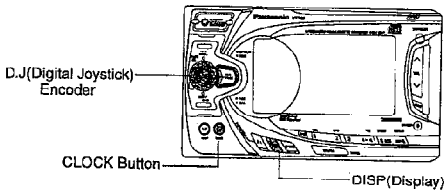
VOL ∧: Increase Volume.
VOL ∨: Decrease Volume.

※Press and hold VOL ∧ or VOL ∨ to change volume level continuously.

(Range: 0-40)



Note:
Volume can also be adjusted by rotating the D.J encoder. (See P.41)

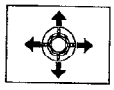


Adjusting the time

The clock system is 12-hours.

① **Press and hold CLOCK for more than 2 seconds, the time setting mode is activated and the time blinks.**
(For initial time setting, "ADJUST" blinks.)

② **Rock the D.J encoder to adjust the time as follows:**
- ⬅ : Hour setting • The hour blinks.
- ➡ : Minute setting • The minute blinks.
- ⬆ : Adjusting hour/minute forward.
- ⬇ : Adjusting hour/minute backward.



③ **When you have set the time, press CLOCK.**
The current mode resumes and the clock starts running.

Note:
When the power is off, the clock can not be adjusted.

Selecting the Clock Display

Press CLOCK for clock display.
Press CLOCK once again, the regular display resumes.

General continued

Switching the Display

Clock can be displayed on the dots display.
Press DISP to switch the following displays on the dots display.

- Regular display of sound source
- Dot Spectrum Analyzer Display

Note:
• If the clock is not set, "ADJUST" will be displayed for the clock display mode.

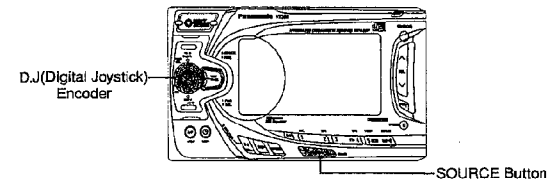
Clock Display (Power Off)

The clock can be displayed when the power is off.
Press DISP when the power is off and press it to change the display as follow.

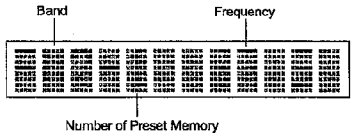
- Clock Display. Standby indicator will light. (Default)
- Clock Display only
- No Display

Note:
"ADJUST" is displayed in the clock display mode if the clock is not set.

Radio Basics



Regular Display in Tuner Mode



Radio Basics continued

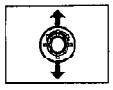
Change to the Tuner Mode

Press SOURCE to switch the Tuner mode.

Selecting a Band

Rock the D.J Encoder up or Down to select the bands as follows;
STEREO Indicator lights if the FM station is broadcasting in stereo.

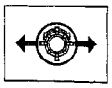
↑ (FM): Changing FM Bands FM1→FM2→FM3
↓ (AM): Change to AM Band AM



Tuning

Manual Tuning

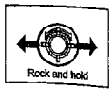
Rock the D.J Encoder to left or right to tune to lower or higher frequency.
↑ (TUNE <): Tune to lower frequency.
↓ (TUNE >): Tune to higher frequency.

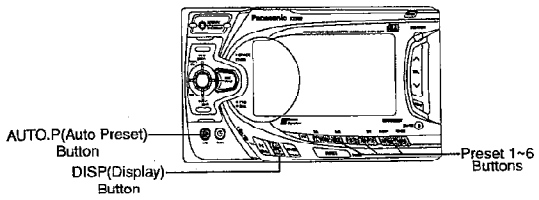


Note:
The frequency can also be tuned by rotating the D.J Encoder. (See P.41)

Seek Tuning

Rock and hold the D.J Encoder to left or right for more than 0.5 second.
← (TUNE <): Tune to lower frequency.
→ (TUNE >): Tune to higher frequency.
The radio automatically stops on the next station.

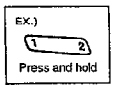




Preset Station Setting

Manual Station Preset

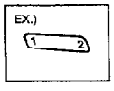
- Use manual or seek tuning to find a station that you want to program into memory.
- Press and hold one of the buttons 1 through 6 for more than 2 seconds until the frequency indicator blinks.



Auto Preset Memory

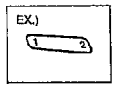
Select a band, and press AUTO.P

- The six strongest available stations will be automatically set in memory on preset buttons 1 through 6.
- Once set, the preset stations are sequentially scanned for 5 seconds.
- Press the appropriate preset button for the station you want to hear.



Tuning in a Preset Station

Press any of the buttons 1 through 6 to tune in the station preset by manual station preset or auto preset memory.



Note:
The former preset station will be erased and replaced by the latest preset station.

Radio Basics continued

Switching Display

Press DISP to switch display on the dots indicator as follows:

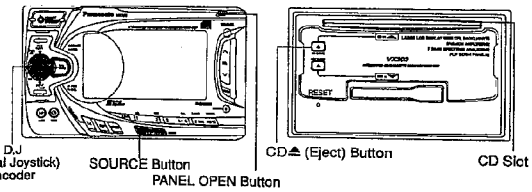
Regular Display (Band, Preset number, Frequency)
↓
Dot Spectrum Analyzer Display

Stereo/Mono/Local selection

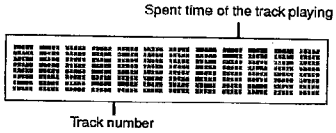
Press and hold MUTE for more than 2 seconds to switch the following modes.

STEREO → MONO ON LOCAL OFF → MONO OFF LOCAL ON → MONO ON LOCAL ON → (back to STEREO)

Compact Disc player Basics

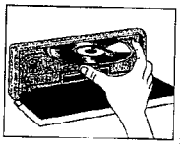


Regular Display in CD Mode



Compact Disc player Basics continued

Inserting a Compact Disc

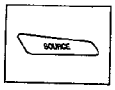


① Press OPEN to open the Front Panel.
② Insert a CD with the label facing up into the CD slot, and than begin to play.
③ Close the front panel by pushing it back.

Notes:
- Never use CD accessories such as commercial protect film, stabilizer etc, because they may cause faults or failures.
- Do not operate the front panel when it is not closed.

Change to the CD Mode

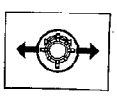
Press SOURCE to switch the CD mode.
CD playing begins.



Note:
The CD MODE can not be switched when no CD inserted.

Selecting a Track

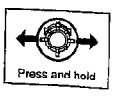
Rock the D.J Encoder to the left or right to select tracks.
- ⇐ (TRACK ◀◀): Rock it once to play from the beginning of the playing track, rock it twice to play previous track.
- ⇒ (TRACK ▶▶): Rock it once to go to the next track.

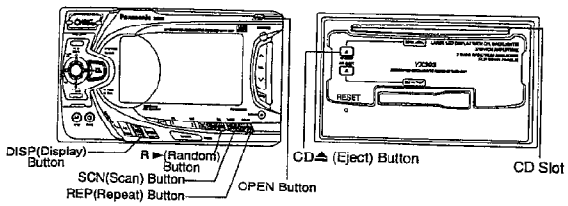


Note:
The track can also be selected by rotating the D.J Encoder. (See P.41)

Searching a Track

Rock and hold the D.J Encoder to left or right for more than 0.5 second to activate fast reverse or forward through a TRACK.
- ⇐ (TRACK ◀◀): Fast reverse
- ⇒ (TRACK ▶▶): Fast forward

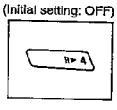




Random Selection

A random selection of music is played from all available tracks on the disc.
- Press R▶ to switch Random "ON/OFF".
- When Random is "ON", the RAND indicator lights.

(Initial setting: OFF)

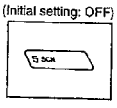


Scanning Tracks

The first 10 seconds of all tracks on the disc play in sequence since the current playing track.
- Press SCN to switch the SCAN "ON/OFF".
- When SCAN in "ON", the SCAN indicator lights.
- Each track on the disc play in sequence for 10 seconds.

※To stop and continue with the current track, press SCN again to switch it "OFF".

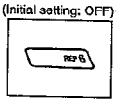
(Initial setting: OFF)



Repeating

The current playing track can play repeatedly.
- Press REP to switch REPEAT "ON/OFF".
- When REPEAT is "ON", the REP indicator lights.

(Initial setting: OFF)

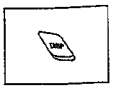


Compact Disc player Basics continued

Switching Display

Press DISP to switch display on the dots indicator as follows:

Regular Display (Track number, spent time of track playing)
↓
Dot spectrum analyzer display



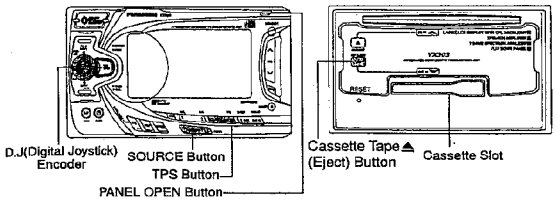
Ejecting a Disc

① Press OPEN to open the front panel.

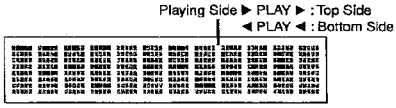
② Press CD ⏏ to eject the disc.

The power will be off after ejected the disc when in CD mode.

Cassette Tape Player Basics



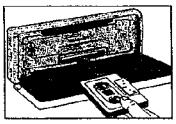
Regular Display of Cassette Tape



Loading a Cassette

① Press OPEN to open the front panel.

② Gently insert the cassette with the exposed tape facing to the right until the loading begins, and playback starts.



Cassette Tape Player Basics continued

Change to the Cassette Tape Mode

Press SOURCE to switch the "TAPE" MODE.

Cassette tape playback starts.

Note:
The TAPE mode can not be switched when no tape in the cassette slot.

Changing Sides

- Rock the D.J Encoder down to switch to the program on the other side of the tape.

▶ PLAY ▶ Top Side ◀——▶ ◀ PLAY ◀ Bottom Side

- When the tape is playing end at one side, then it will play automatically from the other side. (Auto Reverse System)

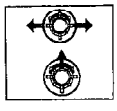
Rewind and Fast Forward

Rock the D.J Encoder to left or right to rewind or fast forward the tape.

⇐ (TRACK ◀◀) : Rewind. The tape will start playing when it is rewinded to the beginning.

⇒ (TRACK ▶▶) : Fast Forward. The tape will start playing from the other side when it is fast forward to the end.

※ Rock the D.J Encoder up to ■ side to stop rewind or fast forward.



TPS Operation (Tape Program Sensor)

When TPS is activated "ON", the interval between programs can be sensed and playback starts from the beginning of a program.

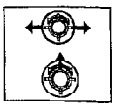
① Press TPS to switch TPS "ON/OFF".

② Rock the D.J Encoder to left or right to select programs.

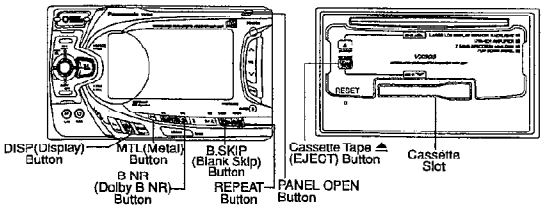
⇐ (TRACK ◀◀) : Rock it once and play starts from the beginning of the current program. Rock it several times to select the backward programs (up to 8 programs).

⇒ (TRACK ▶▶) : Rock it once and play starts from the beginning of the next program. Rock it several times to select the forward programs (up to 9 programs).

※ Rock the D.J Encoder up to ■ side to stop rewind or fast forward.



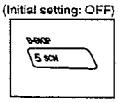
Notes:
- The TPS mode may not work correctly in the following cases. This, however, does not mean that the unit is defective.
- There is an interval less than 4 seconds.
- There is particularly low-level passage during the program.



Blank Skip

(Initial setting: OFF)

It can quickly skip the remaining unrecorded portions at the end of the tape and fast forward to the beginning of the first music on the reverse side of the tape.



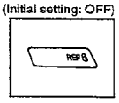
- Press B.SKIP to switch the Blank Skip function "ON/OFF".
- The SKIP indicator lights when the Blank Skip is "ON".
- The SKIP indicator blinks when the Blank Skip is operating.

Notes:
- It will not work when the unrecorded portion of the tape is less than 15 seconds.
- The repeat function has priority over that of the blank skip function when it is ON.

Repeat Play

(Initial setting: OFF)

After finishing the music just listened to ,the rewind starts automatically until the beginning of music, and the same music starts playing again.

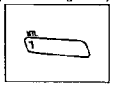


- Press REPEAT to switch Repeat function, "ON/OFF".
- The REP indicator lights when the repeat function is "ON".
- The REP indicator blinks when the tape is rewinding.

Metal Tape Mode

(Initial setting: OFF)

To Play metal or chromium dioxide (CrO_2) position tapes.



- Press MTL to switch the metal tape playing "ON/OFF".
- The MTL indicator lights when the metal tape playing is "ON".

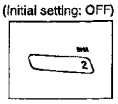
Note:
Playing non-metal tapes in MTL mode causes high frequency imbalance, which affects tone quality.

Cassette Tape Player Basics continued

Dolby Noise Reduction

To reduce the high frequency noise when playing the tape recorded with the Dolby B NR.

(Initial setting: OFF)



- Press B NR to switch the Dolby B NR "ON/OFF".
- The B NR indicator lights when the Dolby B NR is "ON".

Note:
- Playing without Dolby B NR tape in Dolby B NR mode causes high frequency imbalance, which affects tone quality.

Switching Display

Press DISP to switch display on the dots indicator as follows:

→ Regular Display
↓
Dot Spectrum analyzer Display

Ejecting the Tape

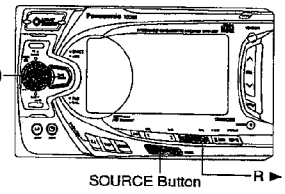
① Press OPEN to open the front Panel.

② Press CST ⏏ to eject the tape.

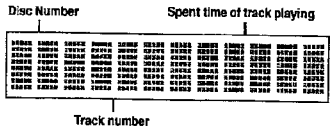
The power will be off after the tape is ejected when in tape mode.

CD Changer Basics

CD Changer functions are applicable to units with optional CD Changer unit. (Sold Separately)

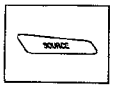


Regular Display of Changer



Change to the Changer Mode

Press SOURCE to switch the changer mode, a disc starts playing.

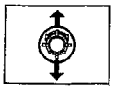


Notes:
- The CHANGER MODE can not be switched when there is no changer connected or no magazine in the changer.
- "NO DISC" displays when there is no disc in the magazine.
- In the case of the power off, the power will be ON when inserting the magazine into the changer. The playing starts when switching to the CHANGER mode from other modes.

CD Changer Basics continued

Selecting a Disc

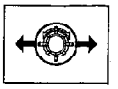
Rock the D.J Encoder up or down to switch DISC ∧ or DISC ∨.



↑ (DISC ∧) : Select discs in ascending order.
↓ (DISC ∨) : Select discs in descending order.

Selecting a Track

Rock the D.J Encoder to left or right to switch TRACK ◀◀ or TRACK ▶▶.



← (TRACK ◀◀) : Rock it once to play the beginning of the current track. Rock it twice to play the previous track.
→ (TRACK ▶▶) : Rock it once to go to the next track.

Note:
The tracks can also be selected by rotating the D.J Encoder. (See P. 41)

Searching a Track

Rock and hold the D.J Encoder for more than 0.5 second to switch TRACK ◀◀ or TRACK ▶▶.

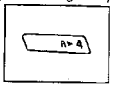
← (TRACK ◀◀) : Reverse
→ (TRACK ▶▶) : Fast forward

Random Selection

Track Random play

A random selection of music is played from all available tracks of all discs in the changer.

(Initial setting: OFF)

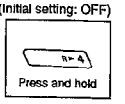


- Press R▶ to switch the TRACK RANDOM selection "ON/OFF".
- The RAND indicator lights when the TRACK RANDOM selection is "ON".

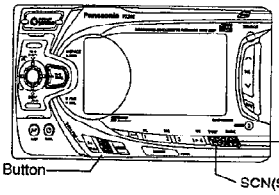
Disc Random Selection

A random selection of music played from all available tracks in the current playing disc.

(Initial setting: OFF)



- Press and hold R▶ for more than 2 seconds to switch the disc random selection "ON/OFF".
- The [DISC] indicator and the RAND indicator light when the disc random selection is "ON".

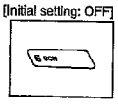


Scanning Tracks/Discs

Scanning Tracks

All tracks descending the current playing track on the discs play in sequence for 10 seconds each.

[Initial setting: OFF]

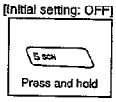


- Press SCN to switch Track Scan "ON/OFF".
- The SCAN indicator lights when Track Scan is "ON".
- To stop scanning and continue with the current track, press SCAN again to switch Track Scan "OFF".

Scanning Discs

The 1st track of all the discs descending the current playing disc in the magazine is played for 10 seconds each.

[Initial setting: OFF]

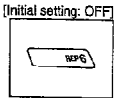


- Press and hold SCN for more than 2 seconds to switch Disc Scan "ON/OFF".
- The [DISC] indicator and the SCAN indicator light when Disc Scan is "ON".
- To stop the current play of the disc scanning, press SCN again to switch Disc Scan "OFF".

Repeating a Track/Disc

Track Repeat play

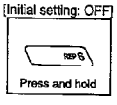
[Initial setting: OFF]



- Press REP to switch Track Repeat "ON/OFF".
- The REP indicator lights when Track Repeat is "ON".

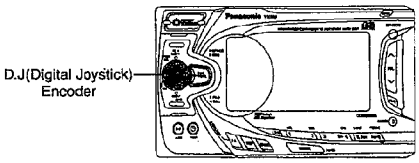
Disc Repeat play

[Initial setting: OFF]



- Press and hold REP for more than 2 seconds to switch Disc Repeat "ON/OFF".
- The [DISC] indicator and the REP indicator light when DISC REP is "ON".

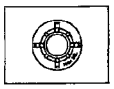
Sound Setting Basics



Change the Sound Control mode

Mode Selection

Press the D.J Encoder (SEL Button) to switch modes as follows:



- Regular mode
- ⬇
- Sound Control mode (See P.28-35)
- ⬇
- Function Control mode (See P.40-44)

Note:
Those buttons for the regular mode can not be operated when setting, or adjusting.
Please return to the regular mode.

Selecting the Sound Setting function

Sound Control mode

Press the D.J Encoder (SEL Button), and then turn it to the right to switch the following orders. (Turn left: reverse orders)

- Regular mode
- ⬇
- HUMAN EQ : Human Equalizer (See P.29)
- ⬇
- GRAPHIC EQ : Graphic Equalizer (See P.30)
- ⬇
- BAL//FAD : Adjust the volume of the front, rear, left and right speakers. (See P.32)
- ⬇
- POSITION SEL : Select the sound field position for seats. (See P.32)
- ⬇
- SUPER BASS : Super woofer output for the rear speakers. (See P.33)
- ⬇
- SDBB SELECT : Enhance the low frequency effect. (See P.34)

Note:
When a control mode is selected but no operation is made within 10 seconds, the display will return to the regular mode automatically.

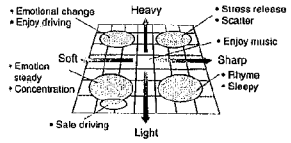
Human Equalizer

H E Q

The are 2 modes for HEQ adjustment, please select one mode of them. (See P.44)

HEQ Normal Mode

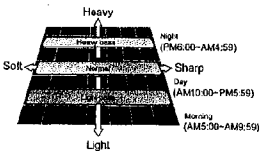
Select the tone quality during 49 patterns, the complex equalizer can be simply adjusted. you can select the tone quality you like.



FLAT(0) at the center, the vertical axle is for bass adjusting and the horizontal axle is for treble adjusting. [initial setting: FLAT(0)]
[Adjusting range: each 1-3(49 patterns)]

HEQ Day & Night Mode

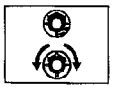
The tone quality can adjust itself automatically for various time period. The Bass is light in the morning and heavy at night. The tone quality is selected during 7 patterns for every time period.



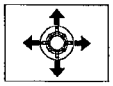
It can only adjust it horizontal axle (treble).

Note:
The DAY & NIGHT mode can not be selected if the clock is not adjusted yet.

① Select "HUMAN EQ". (See P.28)



② Rock the D.J Encoder.

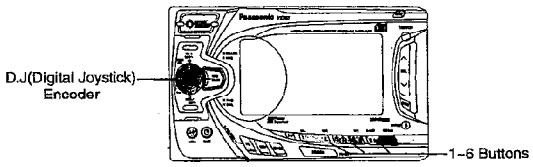


- ⬆ (HEAVY) : Changing to heavy bass.
- ⬇ (LIGHT) : Changing to light bass.
- ⬅ (SOFT) : Changing to soft treble.
- ➡ (SHARP): Changing to sharp treble.

※For setting DAY & Night Mode, adjust the horizontal axle only.

- The cursor moves on the HEQ display, the adjusted position blinks.
- The EQ indicator blinks when adjusting and lights after adjusted.

Sound Setting Basics continued



Graphic Equalizer (GEQ)

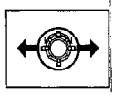
G E Q

Adjusting the Frequency to adjust the Tone Quality

To adjust the level of the frequency range to set the tone quality you like.
(Initial setting: 0 dB for all frequencies, adjustable range: 12dB ~ 12dB)

① Select "GRAPHIC EQ". (See P.28)

② Rock the D.J Encoder to left or right to select the frequency.

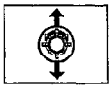


- Rock it to right to change the following frequencies. (Rock it to left: reverse frequencies)

80 ➡ 160 ➡ 320 ➡ 640 ➡ 1.6k ➡ 4k ➡ 10k(Hz)

- The cursor moves to the left and the right directions, the selected frequency blinks.

③ Rock the D.J Encoder up or down to adjust the level.



- ⬆ : Level up
- ⬇ : Level down

※Repeat ②③ above to set each frequency level.
The EQ indicator blinks when adjusting and lights after set.

The cursor moves upward or downward and the selected level blinks.

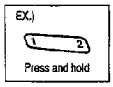
Memorized the Adjusted Tone Quality

GEQ Memorized

The adjusted GEQ tone quality can be memorized for 1 through 6 buttons.

① Select "GRAPHIC EQ". (See P.28)

② Press and hold one of the buttons 1-6 for more than 2 seconds.



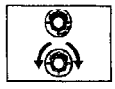
- The current GEQ curve characteristic is memorized for that button you pressed.
- The preset memory number blinks when the memory is finished.

Note:
The former memorized GEQ curve characteristic will be replaced by a new one.

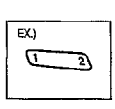
Call the Tone Quality Memory

The memorized GEQ curve characteristic can be called by operating a button.

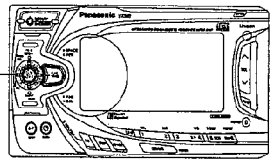
① Select "GRAPHIC EQ". (See P.28)



② Press any of the buttons 1-6 to call the GEQ curve characteristic.



Sound Setting Basics continued

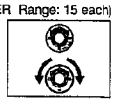


Balance/Fader Adjustment

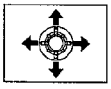
To adjust the volume of the left, the right, the front and the rear speakers.

(Initial setting: CENTER Range: 15 each)

① Sel "BAL/FAD". (See P.29)



② Rock the D.J Encoder to the left, right, up, down to adjust the volume level.



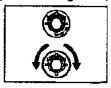
↑ (FRONT) : Increase the volume level of the Front speakers.
↓ (REAR) : Increase the volume level of the Rear speakers.
← (LEFT) : Increase the volume level of the Left speakers.
→ (RIGHT) : Increase the volume level of the Right speakers.

Position Selection

To adjust the sound field for passenger on which seat to listen to.

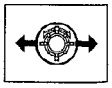
[Initial setting: OFF]

① Select "POSITION SEL". (See P.28)



② Rock the D.J Encoder to the left or right.

Rock it to the right to switch the following orders.
(Rock it to the left: reverse orders)



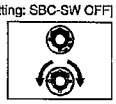
Off(all seat) → RIGHT (The front right seat) → LEFT(the front left seat)
↑ ↓
REAR (the rear seat) ← FRONT (the front seat)

Rear Speaker Exclusive to Sub Woofer Output [Super bass control sub Woofer (SBC-SW)]

You will find it quite easy to enjoy super bass from the rear speakers (built-in amplifier)

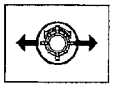
[Initial setting: SBC-SW OFF]

① Select "SUPER BASS". (See P.28)



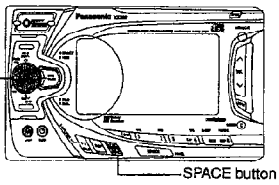
② Rock the D.J Encoder to the left or right.

Rock it to the right to change the following orders.



→ SBC-SW OFF : Regular stereo output without high frequency cutting.
↓
SBC-SW FLAT : Regular mono output without high frequency cutting. (mono output)
↓
SBC-SW 100 : Cut the high frequency for 100 Hz upper. (mono output)
↓
SBC-SW 150 : Cut the high frequency for 150 Hz upper. (mono output)
↓
SBC-SW 200 : Cut the high frequency for 200 Hz upper. (mono output)

Sound Setting Basics continued



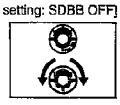
Enhance the low frequency effect

Super Dynamic Bass Booster (SDBB)

You will find it quite easy to enjoy super bass from four speakers by enhancing the bass field (built-in amplifier).

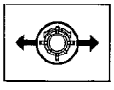
[Initial setting: SDBB OFF]

① Select "SDBB SELECT" (See P.28)

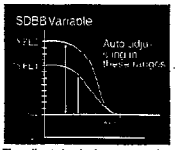


② Rock the D.J Encoder to the left or right.

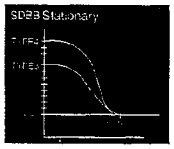
Rock it to the right to change the following orders.



→ SDBB OFF : Regular stereo output (Do not enhance the low frequency effect.)
↓
SDBB TYPE 1 : Variable, Weak
↓
SDBB TYPE 2 : Variable, Strong
↓
SDBB TYPE 3 : Stationary, Weak
↓
SDBB TYPE 4 : Stationary, strong



To adjust the balance well for the bass input level, the proper level of the super bass output automatically.



To use the bass with shaking effect.
It can select strong/weak.

SPACE

The SPACE likes as in the concert stage reappears in the car.

(Initial setting: SPACE OFF)

Press DSP and then turn the D.J Encoder.

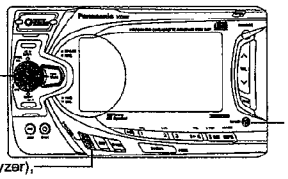
• Turn it to the right to change the following orders.
(Turn to the left; reverse orders.)

SPACE OFF → LIVE HOUSE → CONCERT HALL
↑ ↓
CINEMA JAZZ CLUB
↑ ↓
VOCAL ← DISCO ← STADIUM

• The SPACE indicator lights when the space is set.

Note:
The space setting is invalid for the radio station set by direct memory. (See P.38)

Convenient Functions



Changing the Spectrum Analyzer Displays

The display pattern can be selected between those 12 kinds. (Initial setting: DEMO)

Press S.A and then turn the D.J Encoder.

Turn it to the right to change the following orders.
(Turn it to the left: reverse orders)

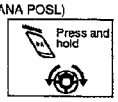
- ① DEMO
- ② WAVE
- ③ AURORA
- ④ MILKY WAY
- ⑤ TWINKLE STAR
- ⑥ SUN
- ⑦ METEOR
- ⑧ SPACE FEVER
- ⑨ SPACE WAVE
- ⑩ BIG BANG
- ⑪ BLANK SPEANA : The Spectrum Analyzer extinguishes.
- ⑫ ALL DISP OFF : Turn off the display and illumination.
  The whole display extinguishes. The display lights when operating such as VOL button etc, and extinguishes again after operation for about 5 seconds.

Notes:
- This unit can not be operated when in DEMO MODE, please change to other modes except for DEMO MODE.
- To display the regular mode from ALL DISP OFF mode, please press S.A button and then turn the D.J Encoder to set the above ①-⑪.

To Arrange the Spectrum Analyzer Display

It can change the spectrum analyzer display orders. (②-⑩ only). (Initial setting: NORMAL /SPEANA POSL)

Press and hold S.A for more than 2 seconds and then turn the D.J Encoder. Turn it to the right to change the following orders.



- NORMAL : Regular Spectrum analyzer display (The left and right reverse of REVERSE 3)
- REVERSE 1 : The up, down reverse of NORMAL.
- REVERSE 2 : The left and right reverse of REVERSE 1.
- REVERSE 3 : The up and down reverse of REVERSE 2.

Press and hold S.A for more than 2 seconds and then rock the D.J Encoder up or down to change the display polarity of the spectrum analyzer.

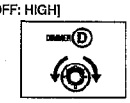
↑: To change the spectrum analyzer to positive polarity.
↓: To change the spectrum analyzer to negative polarity.

To Set the Display Brightness

The display brightness can be set separately when the small light of a car is "ON" or "OFF".

[Initial setting: When light ON: MID When light OFF: HIGH]

Press DIMMER and then turn the D.J Encoder.

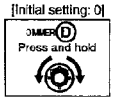


Turn it to the right to change the following orders. (Turn to the left: reverse orders)

- DIMMER HIGH: For high brightness.
- DIMMER MID : For mid brightness.
- DIMMER LOW : For dark brightness.

Contrast

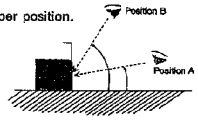
[Initial setting: 0]



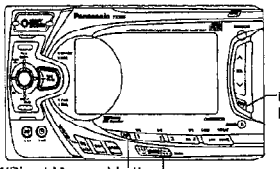
The display contrast can be set separately.

Press and hold DIMMER for more than 2 seconds and the turn the D.J Encoder.

Turn it to the right ➡ To find a proper view angle from the front position (EX. Position A shown at the right diagram)
Turn it to the left ➡ To find a proper view angle from the upper position. (EX. Position B shown at the right diagram)



Convenient Functions continued

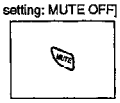


MUTE (Attenuator)

Press MUTE (ATT). Volume will decrease. It is different for setting MUTE or ATT. (See P.42)

[Initial setting: MUTE OFF]

- Press MUTE (ATT) to switch MUTE or ATT "ON/OFF".



For MUTE setting

- MUTE OFF : Regular volume
- MUTE ON : Volume 0 (no sound)

For ATT setting

- ATT OFF : Regular volume
- ATT ON : Volume decrease to 1/10 of its previous level.

- The MUTE indicator lights when MUTE/ATT is "ON".

Direct Memory (D.M)

The traffic information or a station you like can be received simply by only pressing a button from any mode and even the power off.

Frequency

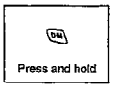
Press D.M to switch modes as follows:

- D.M : A memorized station.
- Regular Mode: The previous mode.

To set a D.M station

① **Select a station you like in TUNER mode. (See P. 13-16)**

② **Press and hold D.M for more than 2 seconds to memorize this station.**

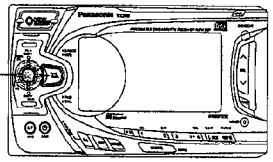


Note:
- The D.M initial setting is FM87.5 MHz
- The Space setting is invalid this time. (See P.36)
- The setting of sound control can not be changed.

Auxiliary

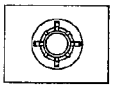
Connect the auxiliary equipment (any other appropriate equipment) to the AUX IN connector at the rear of this unit. (See P.48)
Press SOURCE to switch to AUX IN mode.

Other Settings



Function Control mode

Press D.J Encoder (SEL button) to switch the following orders.



Regular Mode
↓
Sound Control Mode (P.28~35)
↓
Function Control Mode (P.40~44)

Note:
The buttons for regular mode can not be operated when setting or adjusting. Please resume the regular mode.

Function Selection

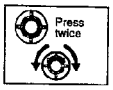
① Press the D.J Encoder (SEL button) twice.

② Turn the D.J Encoder.
Turn it to the right to switch the following orders.
REGULAR MODE
↓
ROTARY SEL : Function can be set by turning the D.J Encoder. (See P.41)
↓
SPEANA SPEED : Set the display speed of the spectrum analyzer. (See P.42)
↓
MUTE KEY SEL : Set the function of the MUTE (ATT) button. (See P.42)
↓
TITLE SCROLL : (not used)
↓
AUX IN SET : Set AUX IN "ON" or "OFF". (See P.43)
↓
HUMAN EQ SET : Set the tone adjusting mode for HEQ. (See P.44)

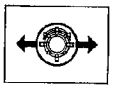
Note:
The regular mode will resume when a control mode is selected but no operation is made within 10 seconds.

Set Functions by Turning the D.J Encoder

① Select "ROTARY SEL". (See P.41)

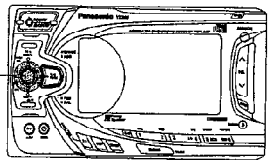


② Rock the D.J Encoder to the left or tight.
Rock it to the right to switch the following orders.



ROTARY HEQ : Adjust the tone quality of human equalizer. (Right turn: up/Left turn: Down)
↓
ROTARY VOL : Adjust Volume.
(Right turn: volume up/Left turn: Volume down)
↓
ROTARY UP/DW : Operation of sound source separately.
(TUNER) frequency setting. (CD CHANGER) Track selection, (TAPE) Rewind/Fast forward. TPS (right turn: UP, forward/Left turn: DOWN, backward)

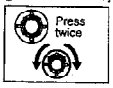
Other Settings continued



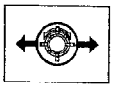
To Set the spectrum Analyzer Display speed

[Initial setting: SPEANA FAST]

① Select "SPEANA SPEED". (See P.40)



② Rock the D.J Encoder to the left or right.
Rock it to the right to switch the following orders.
(Left rock: reverse order)



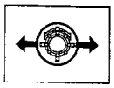
SPEANA FAST
↓
SPEANA SLOW

Set the Function of MUTE (ATT) Button

[Initial setting: MUTE KEY]

① Select "MUTE KEY SEL". (See P.40)

② Rock the D.J Encoder to the left or right.
Rock it to the right to switch the following order.



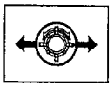
MUTE KEY : Press MUTE (ATT). Volume will decrease to 0. (no sound)
↓
ATT KEY : Press MUTE (ATT). Volume will decrease to about 1/10 of its previous level.

Set Auxiliary In Mode

When there is no auxiliary equipment used, the AUX IN mode can be set not to be switched when selecting sound source (See P.40) [Initial setting: AUX IN...ON]

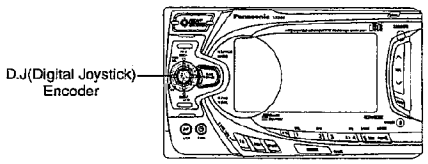
① Select "AUX IN SET". (See P.40)

② Rock the D.J Encoder to the left or right to switch AUX IN "ON/OFF", rock it to the right to switch the following order.



ON: Press SOURCE to change to AUX IN mode.
↓
OFF: Pressing SOURCE can not change to AUX IN mode.

Other Settings continued



To Set HEQ

HEQ has 2 modes for adjusting tone quality, you can set a mode you like.

(Initial Setting: HEQ NORMAL)

① Select "HUMAN EQ SET". (See P.40)

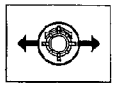
② Rock the D.J Encoder to the left or right.

Rock it to the right to switch the following order.

HEQ NORMAL : Select the tone quality during 49 patterns, the complex equalizer can be simply adjusted. You can set the tone quality you like.

↓

HEQ DAY&NIGHT : The tone quality can adjust itself automatically for various time period of morning, day and night. The tone quality is selected during 7 patterns for every time period.



Note:
"DAY & NIGHT" can not be selected when the clock is not adjusted.

Installation Guide

Precautions

If possible, this equipment should be professionally installed. In case of difficulty, please consult with your nearest professional installer.

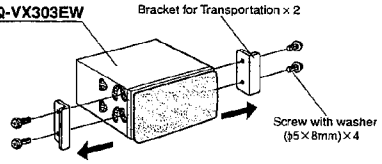
1. This unit only operates in a 12-volt DC negative ground system.
2. Before performing installation and wiring, remove the negative (–) terminal of the battery. (See Note below.)

Note:
Do not disconnect the negative battery terminal in vehicles equipped with trip or navigational computers. All electronic memory settings previously registered will be lost. Take extra care to avoid causing short-circuits when installing the unit.

3. Follow the wiring connection diagram carefully to avoid causing damage to the unit.
4. Insulate all exposed wires to prevent short-circuits.
5. Secure all loose wires after installing the unit.
6. Please carefully read the operating and installation instructions of any equipment connected to this unit.

Transportation bracket removal

Be sure to remove the bracket for transportation before use (installation).
※Use screws (ϕ5 X 8mm) with washers for installation.
Be careful not to lose any of these parts.



Note:
- The unit is not TAP finished on the right side although there are screw holes in it. Please only use screws provided to mount the unit.
- To tighten the screws, press its head down straight forward.

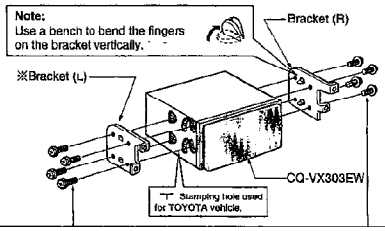
Installation Hardware

Item	Qty
Screw with washer (ϕ5 × 8mm)	4
Flat-head small screw (ϕ5 × 8mm)	8
Power Connector	1

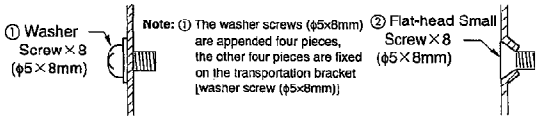
Installation Guide continued

■ Typical Installation (For vehicle with 2 DIN size)

1. Remove Car radio or little object box from the vehicle and the stopping brackets.
2. Use the appended screws ① or ② to install the brackets on this unit.
3. Install this unit into the vehicle.


Note:
Use a bench to bend the fingers on the bracket vertically.
Bracket (R)
※Bracket (L)
CQ-VX303EW
"T" Stamping hole used for TOYOTA vehicle.

Appended Screws (① or ②)... Select appropriate ones matching the hole shape of the bracket.


① Washer Screw × 8 (ϕ5×8mm)
Note: ① The washer screws (ϕ5x8mm) are appended four pieces, the other four pieces are fixed on the transportation bracket (washer screw (ϕ5x8mm))
② Flat-head Small Screw × 8 (ϕ5×8mm)

- If a special kit (Sold separately) is necessary for a certain year's, model or grade vehicle, please consult your dealer.
- For electrical connecting simply to your vehicle, you can buy a prepared power connecor from your dealer.

■ Installation for except for the above motors

For general use kit (Sold separately) or motor's special kit (Sold Separately), Please consult your dealer.

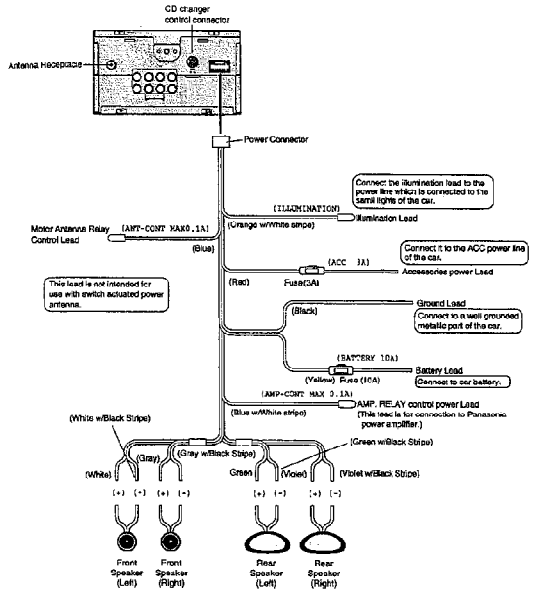
Note:
The opening space 180mm(W) × 100mm(H) is for 2 DIN size vehicle.

Electrical Connection

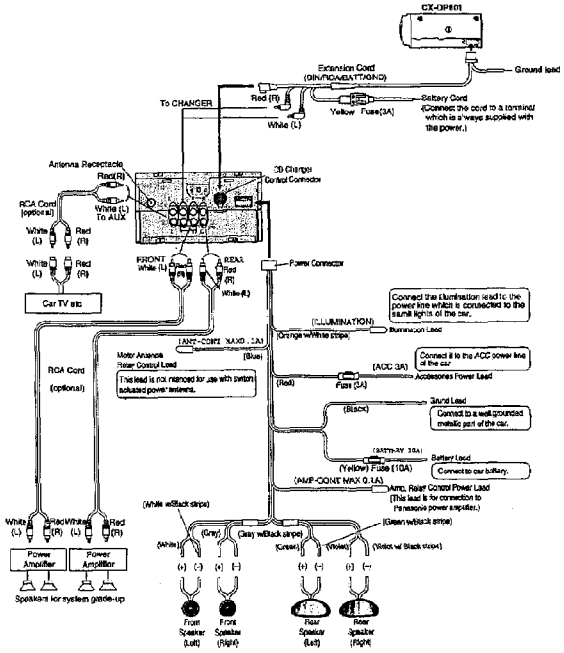
Precautions

- This unit only operates in a 12-volt DC negative ground system.
- Prevent short-circuits, remove the negative (–) terminal of the battery.
- Please carefully read the operating instructions of any equipment connected to this unit.

Caution:
For installation to cars with trip or navigational computers, all electronic memory settings previously registered in the computer will be lost when the battery terminal is disconnected.



Example of System Grade-up (With 8 Speakers) Combination of CD Changer (CX-DP801) and a Car TV



Troubleshooting Tips

■ Power

Problem	Possible Cause	Probable Solution
Unit won't turn on.	Dead vehicle battery. Ignition not on.	Charge vehicle battery. Turn ignition to On or Acc.
	Bad each line connection.	Check connections.
	Bad power battery line connection.	Connect battery cables to terminals that are always live.
	Bad Accessory line connection.	Connect accessory power cord with ACC power supply of the car.
	Fuse burned out.	Replace it with one of the specified rating. Please consult your dealer.
	Bad ground line connection	Connect ground line to a metallic of your car.

■ General

Problem	Possible Cause	Probable Solution
No Sounds	Mute is on.	Press MUTE to set it OFF.
	Bad each line connection.	Check connections.
	Bad Speaker line connection.	Check connections.
	Condensation	Wait for some time before use.
No operation by pressing buttons	Spectrum analyzer display is in demo mode.	Select other than demo mode before operating.

Trouble shooting continued

■ Radio

Problem	Possible Cause	Probable Solution
Much noise in FM stereo and monaural broadcasts	Station it too far or signals are too weak.	Tune in to a station emitting strong signals.
Presetting lost from memory	Bad power battery line connection.	Connect battery cables to terminals that are always live.

■ CD

Problem	Possible Cause	Probable Solution
NO Sound after inserting CD	CD inserted wrong side up.	Insert the CD with lable side facing up.
	CD dirty	Clean CD by instructions of CD cleaning.
CD sound skip; poor sound quality	CD dirty	Clean CD by instructions of CD cleaning.
Sound skip due to vibration	Mounted at an angle of over 30 degrees.	Adjust mounting angle to be less than 30 degrees.
	Mounted unsteady	Securely fasten unit and mounting parts, referring to instructions for installation.
CD can't be ejected.	• CD defective • Mechanical defect	Open front panel and press ⏏ button. If CD can't still be ejected, press RESET switch. If trouble is still unremedied, ask your dealer or nearest service station for repair.

■ Cassette Tape

Problem	Possible Cause	Probable Solution
Poor tape sound quality	Poor quality tape	Use better quality tape
	Head is dirty	Clean the head
Tape can't be ejected	• Cassette tape defect • Mechanical defect	Press CST ⏏ button on inner panel. Use better tapes. Press RESET switch when can't play. If trouble is still unremendied, ask your dealer or nearest service station for repair.
Tape playing always change programs		
Can't stop tape playing		

■ Sound Control

Problem	Possible Cause	Probable Solution
No sound from left, right, front or rear speaker.	Left-right, front-rear balance is off.	Properly adjust BAL/FAD.
	Bad each line connection.	Check connection.
Bass sound from rear speaker or mono sound not output.	SBC-SW is "ON".	Set SBC-SW "OFF".
Right and left sounds reverse in stereo.	Speaker wires are connected wrong.	Connect speaker wires to be correct.

■ Clock

Problem	Possible Cause	Probable Solution
Clock unadjustable	Power is not on.	Press POWER button switch power On, then adjust the clock.

Troubleshooting continued

■ Error Display Messages (CD Player)

Display	Possible Cause	Probable Solution
CD –E1–	Disc dirty or wrong side up.	Press CD ▲ button on the inner panel.
CD –E2–	Disc damaged.	Check the disc.
CD –E3–	Unit fails to operate for some cause.	Press CD ▲ button on the inner panel. If the unit still dose not work, press RESET switch. If it still fails to operate normally, ask your dealer or nearest service station for repair.
PLS EJECT	CD player can't play for some cause.	Press CD ▲ button on the inner panel.

■ Error Display Messages (Cassette)

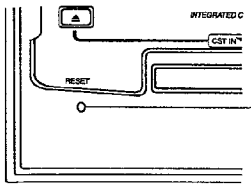
Display	Possible Cause	Probable Solution
PLS EJECT	Cassette can't play for some cuase.	Press CST ▲ button on the inner panel.

■ Error Display Messages (CD Changer)

Display	Possible Cause	Probable Solution
CD CH –E1–	• Disc dirty or wrong side up.	Eject magazine and check the disc.
CD CH –E2–	Disc damaged.	
CD CH –E3–	Unit fails to operate for some cause.	Press EJECT button on changer. If trouble is unremendied, press the RESET switch on changer. If it still fails to operate normally, ask your dealer or nearest service station for repair.
NO DISC	No disc at all in magazine.	Insert discs into magazine.

Note:
- A number E1 or E2 indicates the number of an error disc.
- Display contents and operations vary in part from one changer to another (due to the differences in changer specifications). For details, refer to the operating instructions of the changer you are using.

If abnormal operation appears



RESET Switch
Use a unflexible thin stick to press this switch in the hole. The initial settings will resume and please note that all electronic memory settings previously registered will be lost.

Note:
If the unit still not operate normally after pressed the RESET switch, ask your dealer or nearest service station for repair.

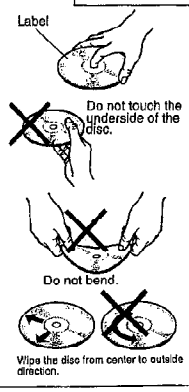
Special Notes

Notes on Compact Discs

ONLY USE DISCS CARRYING LABEL SHOWN ON THE RIGHT

COMPACT disc DIGITAL AUDIO

- Dirt, dust, scratches and bending of disc will cause misoperation. Handle discs with care.
- Do not place stickers or make scratches on disc.
- Do not bend discs.
- Disc should always be kept in the case when not in use to prevent from damaging.
- Do not place discs in the following places:
  1.) Direct sunlight
  2.) Dirty, dusty and damp areas
  3.) Near vehicle heaters
  4.) Seats and dashboard

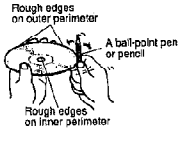


Disc Cleaning
Use a dry soft cloth to wipe the surface. If the disc is quite dirty use a soft cloth slightly.

For Special Shape CDs
The heart shape or polygon shape disc can not be used in the unit.

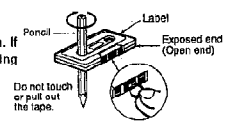
Caution for use of a new Disc

A new disc may have rough edges on its inner and outer perimeter. If a disc with rough edges is used, proper setting will not be possible and the CD player will not play the disc. Therefore, remove the rough edges in advance by using a ball-point pen or pencil as shown on the right. To remove the rough edges, press the side of the pen or pencil against the inner and outer perimeter of the disc.

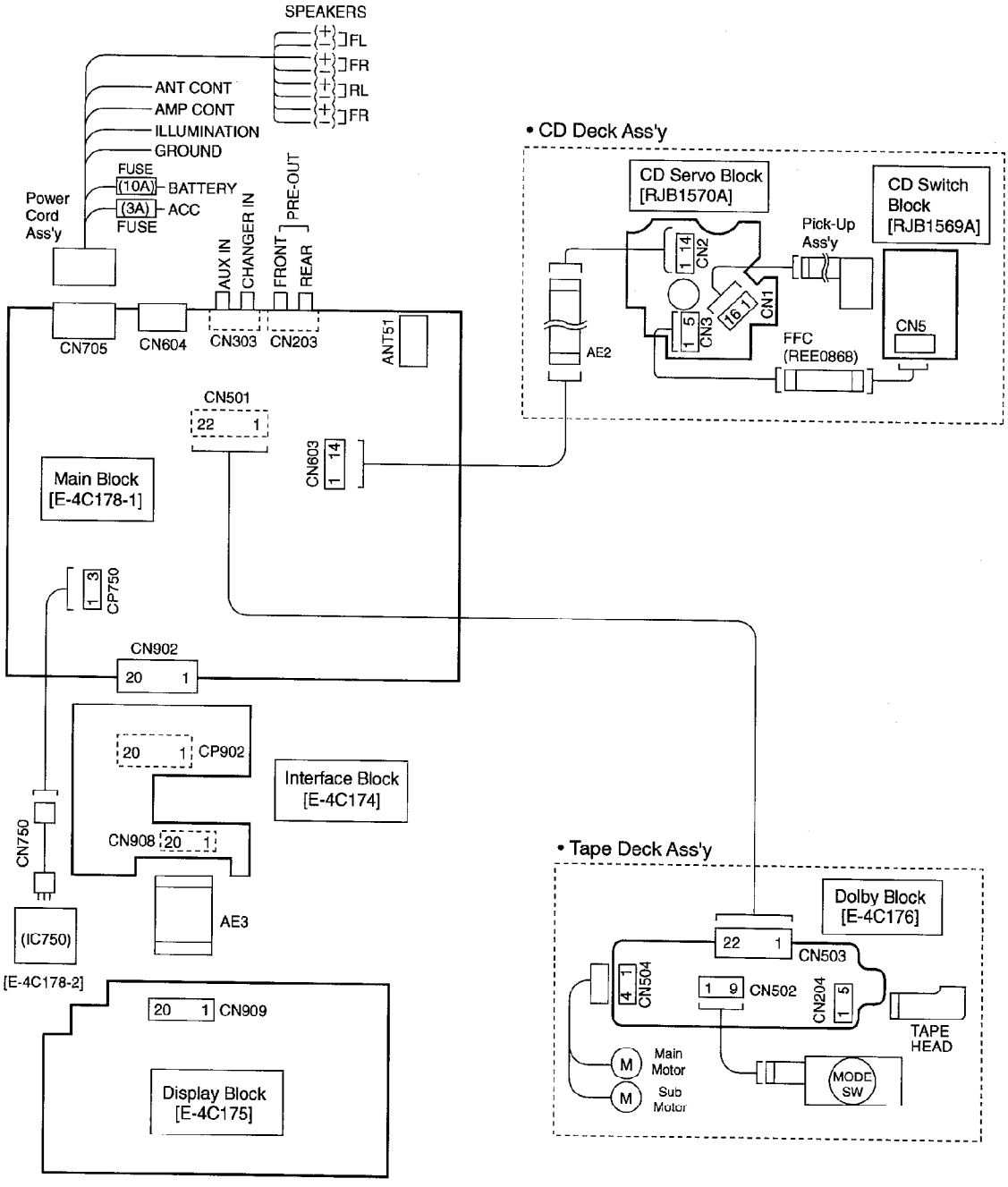


Notes on Cassette Tapes

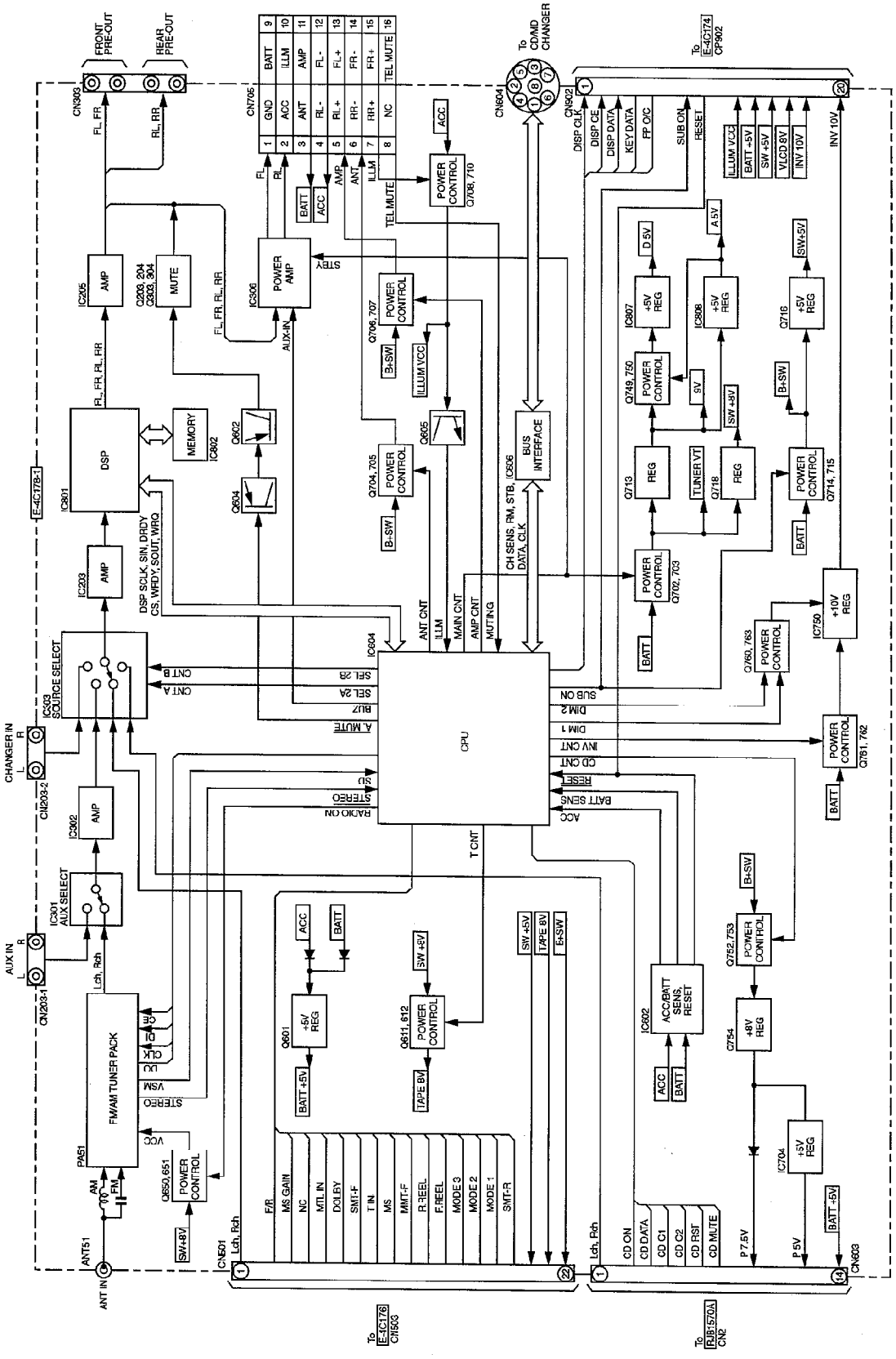
Tape Slack:
Use a pencil or similar object to take up the slack as shown. If a loose tape is used, this may result in the tape becoming tangled in the rotating parts of the unit.



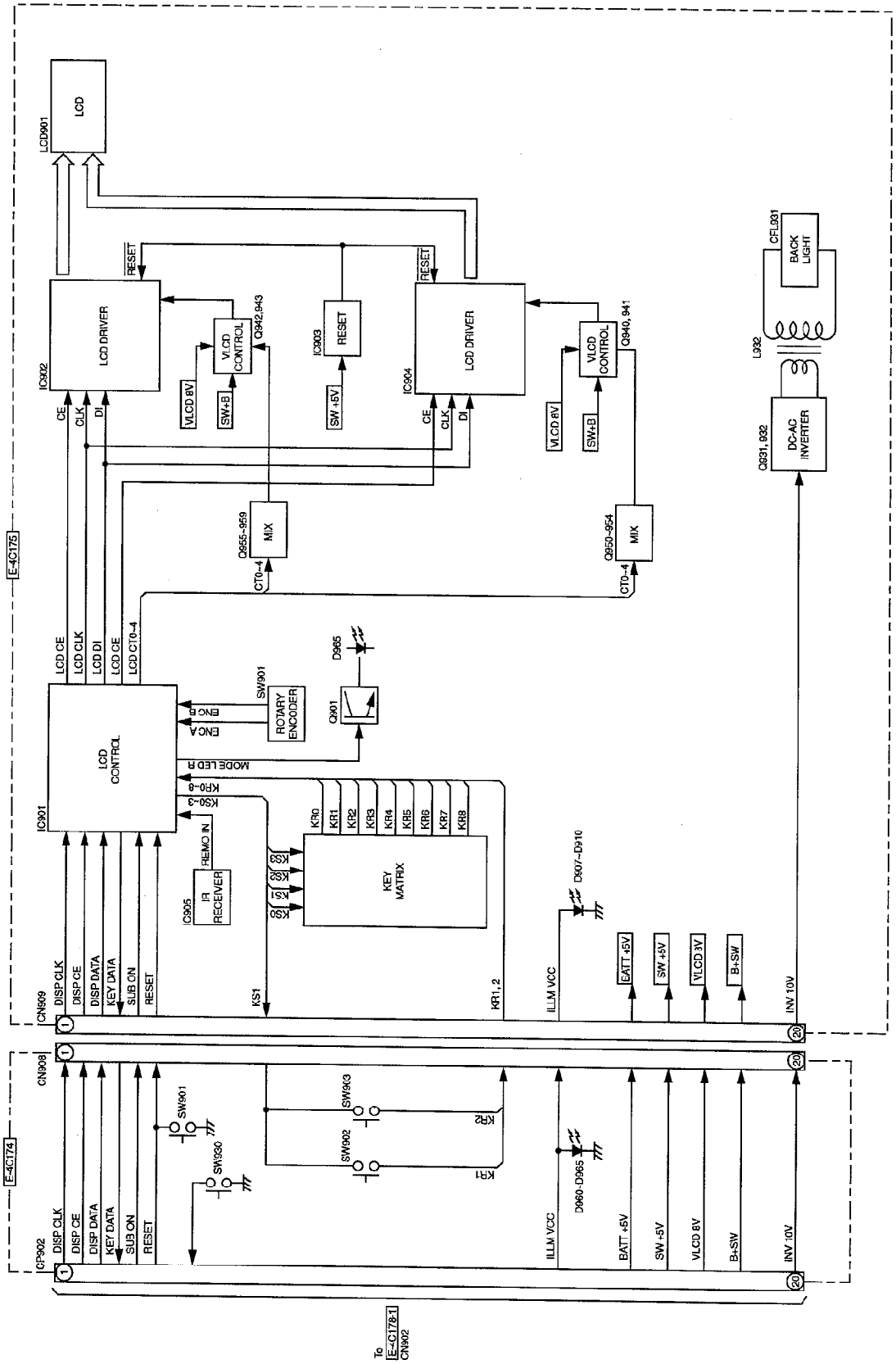
WIRING CONNECTION



BLOCK DIAGRAM (Main Block)

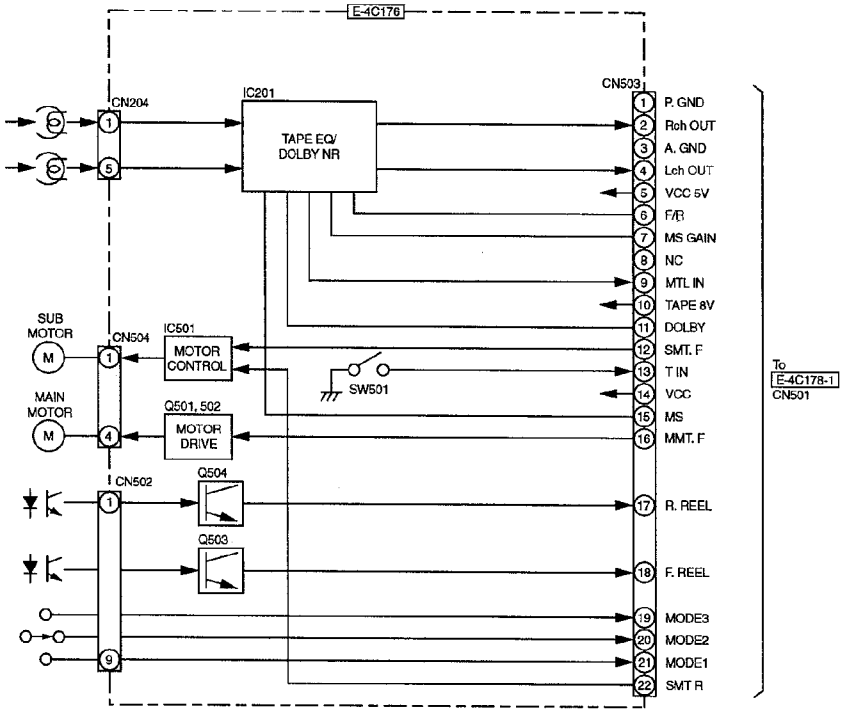


BLOCK DIAGRAM (Display / Interface Block)

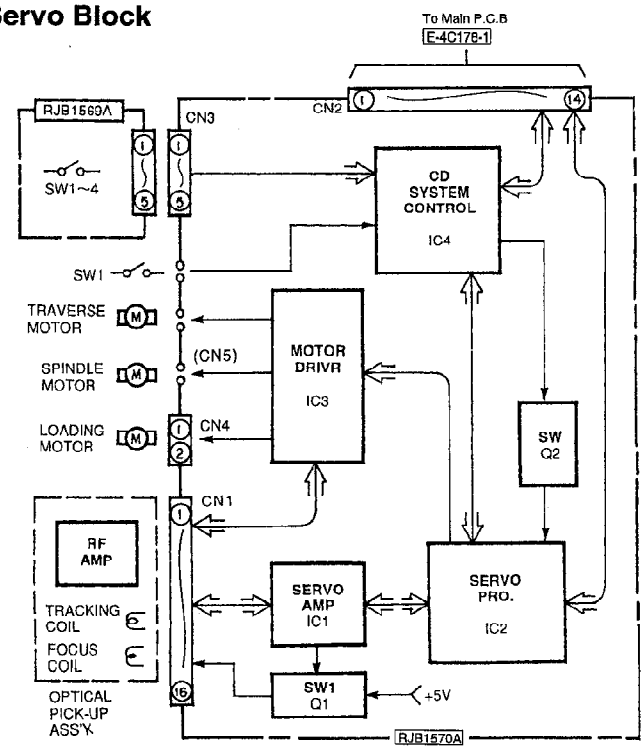


BLOCK DIAGRAM (Dolby / CD Servo Block)

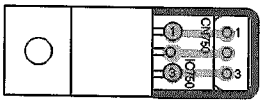
• Dolby Block



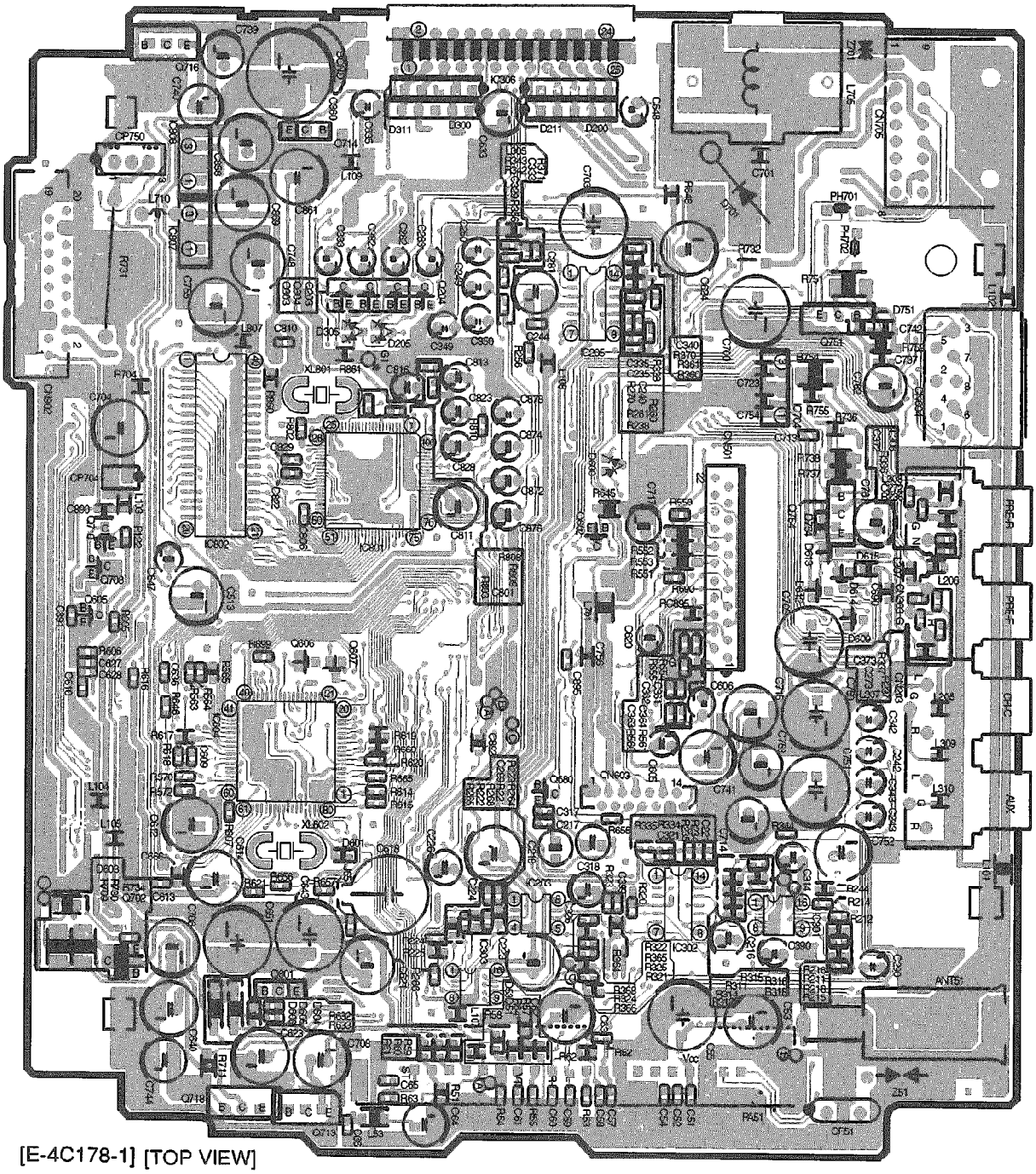
• CD Servo Block



WIRING DIAGRAM (Main Block -1) MODEL CQ-VX303EW

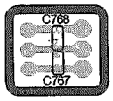


[E-4C178-2]
[TOP VIEW]

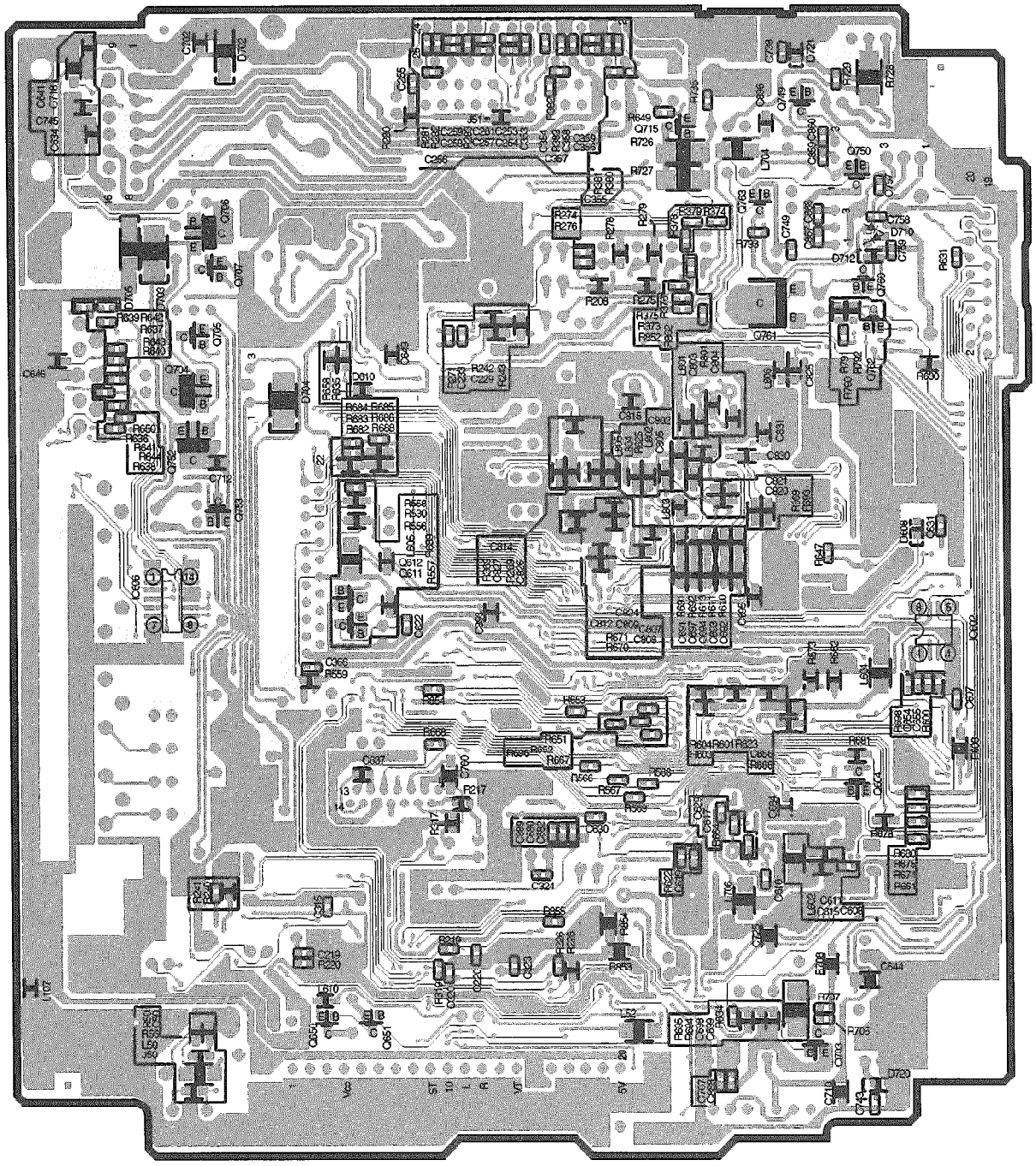


[E-4C178-1] [TOP VIEW]

WIRING DIAGRAM (Main Block -2) MODEL CQ-VX303EW

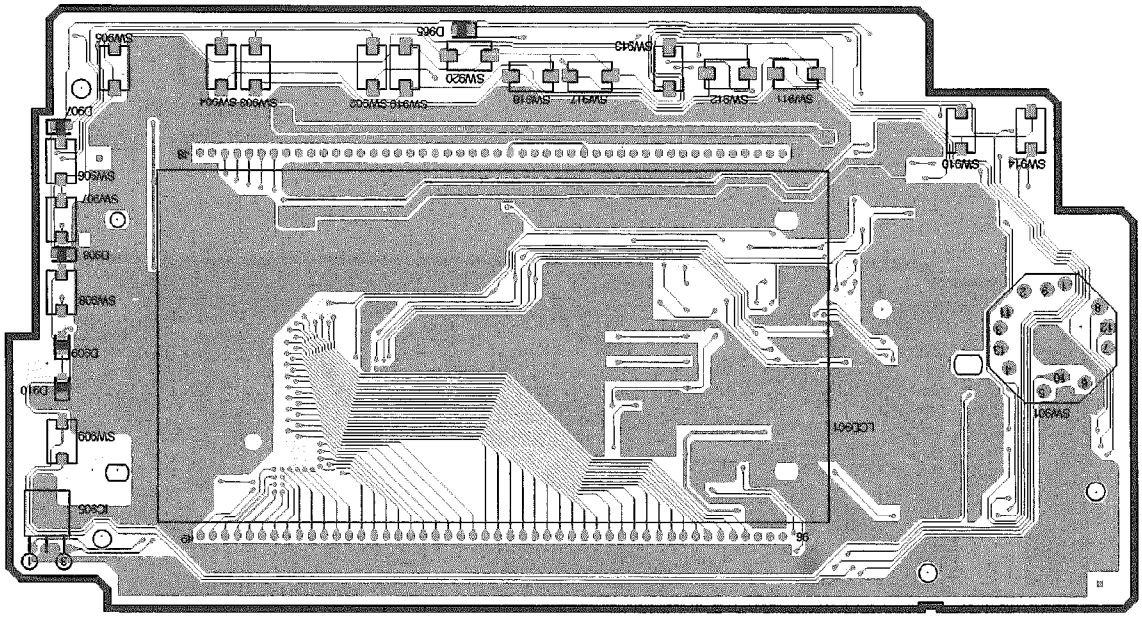


[E-4C178-2]
[BOTTOM VIEW]

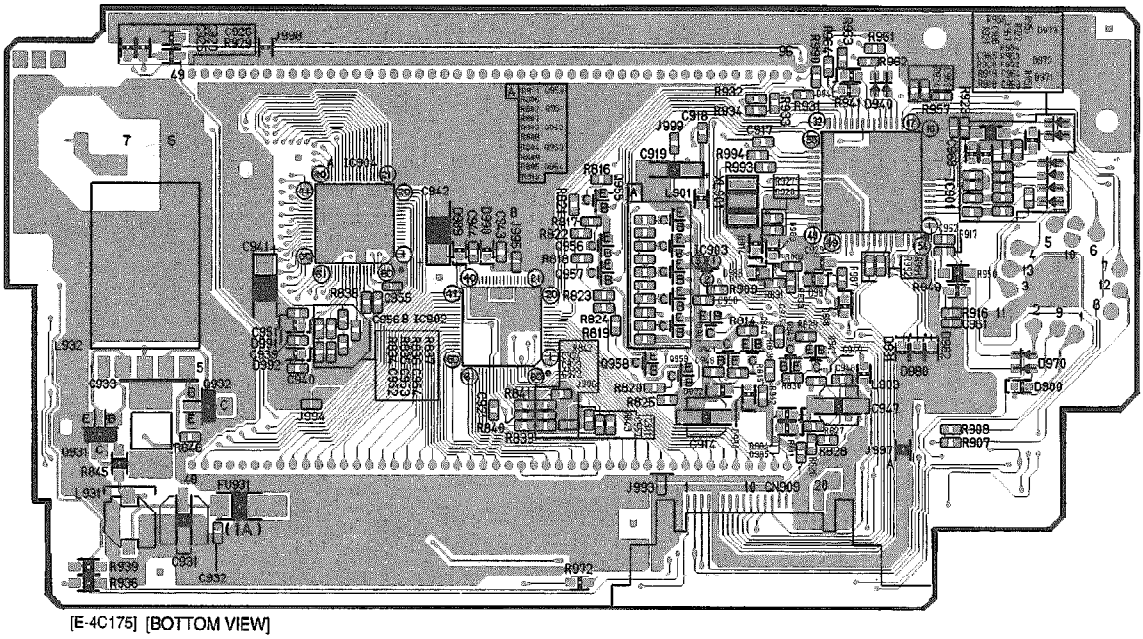


[E-4C178-1] [BOTTOM VIEW]

WIRING DIAGRAM (Display Block) MODEL CQ-VX303EW

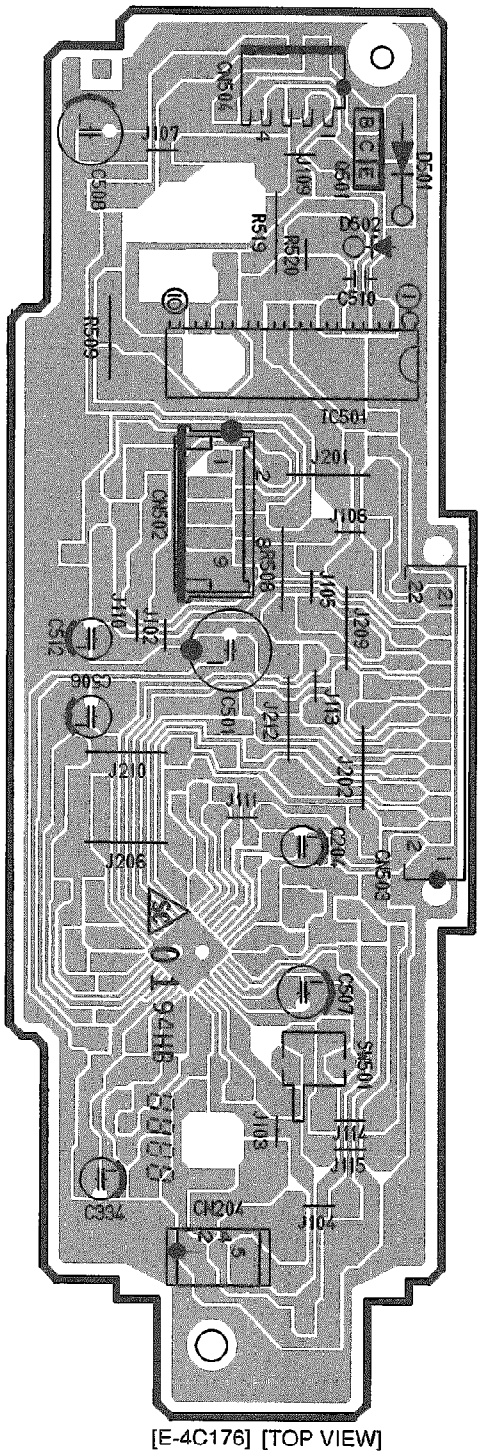


[E-4C175] [TOP VIEW]

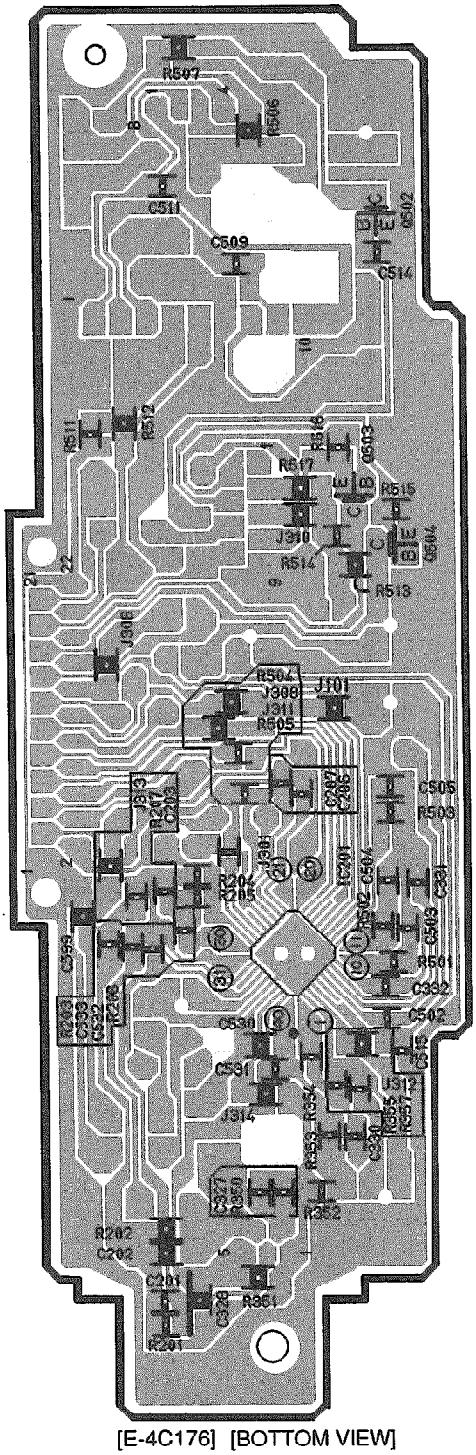


[E-4C175] [BOTTOM VIEW]

WIRING DIAGRAM (Dolby Block) MODEL CQ-VX303EW

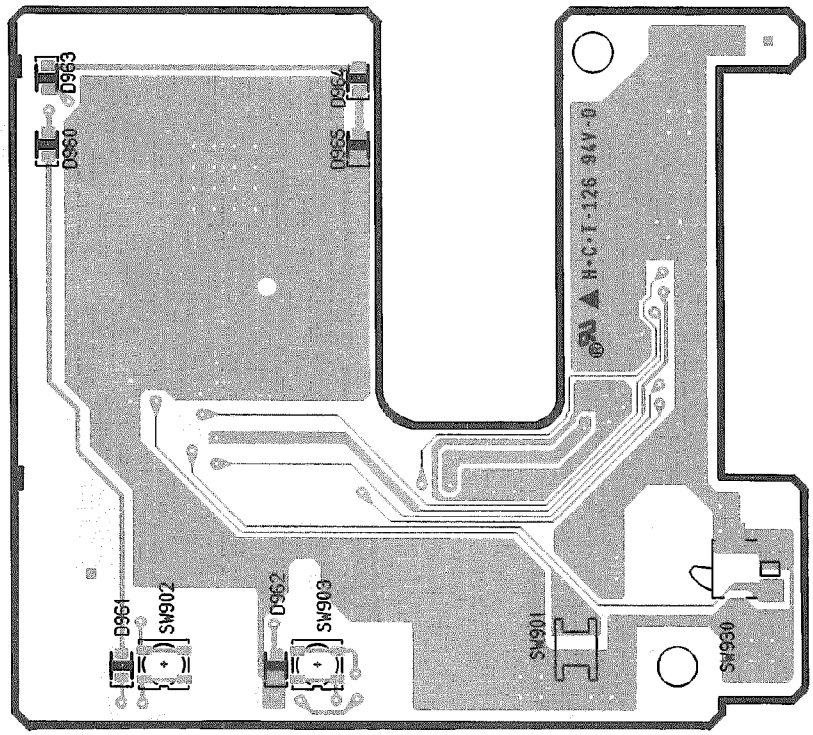


[E-4C176] [TOP VIEW]

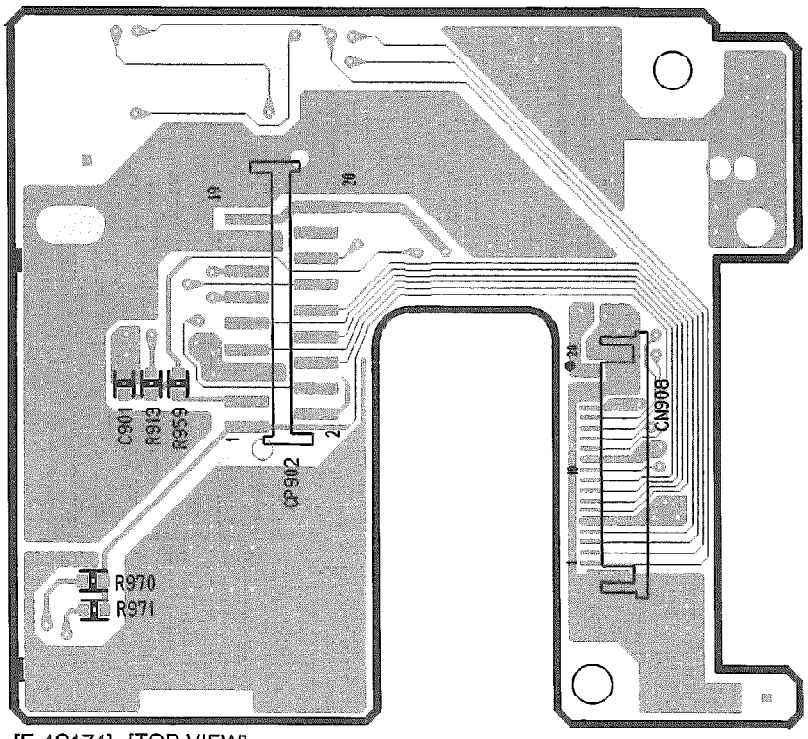


[E-4C176] [BOTTOM VIEW]

WIRING DIAGRAM (Interface Block) MODEL CQ-VX303EW

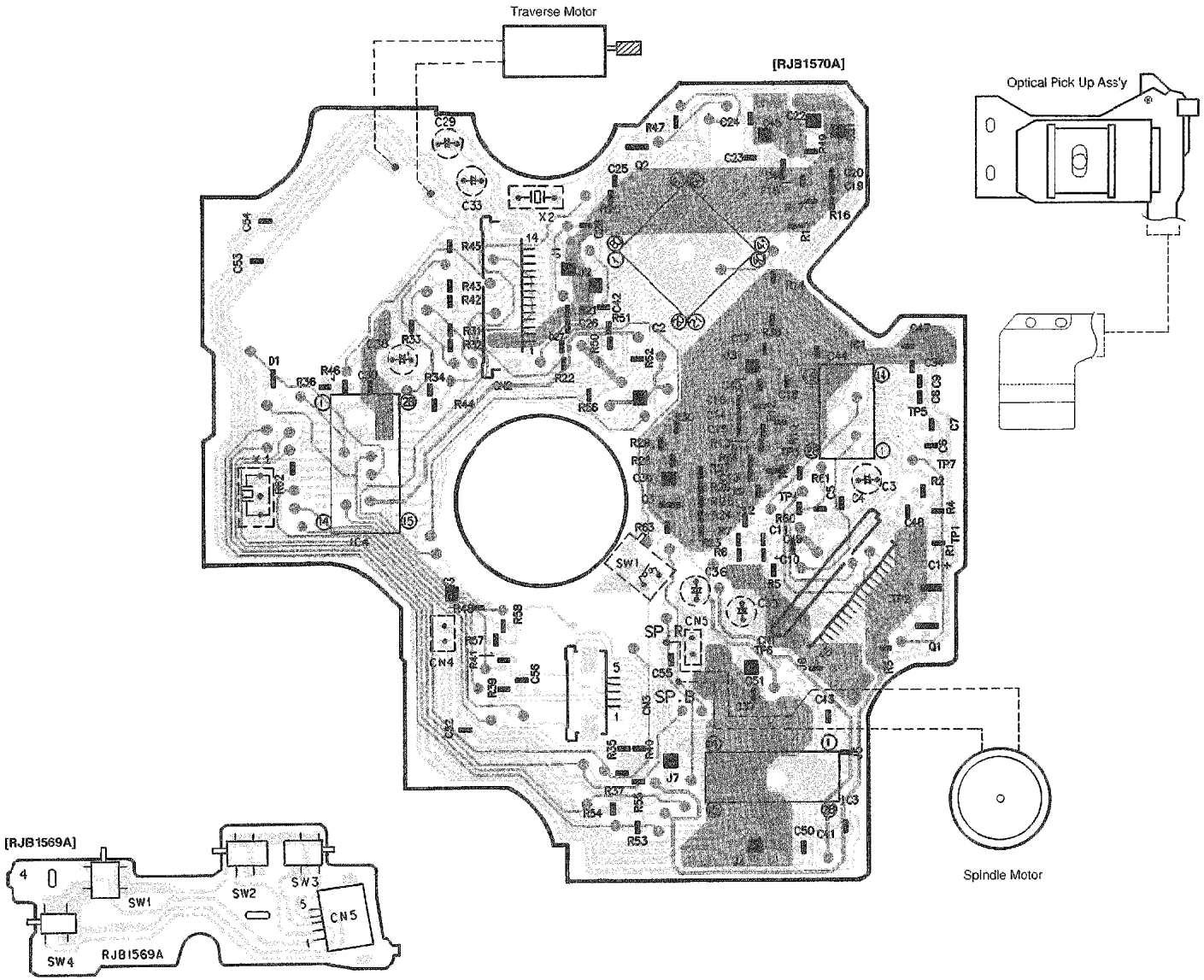


[E-4C174] [BOTTOM VIEW]

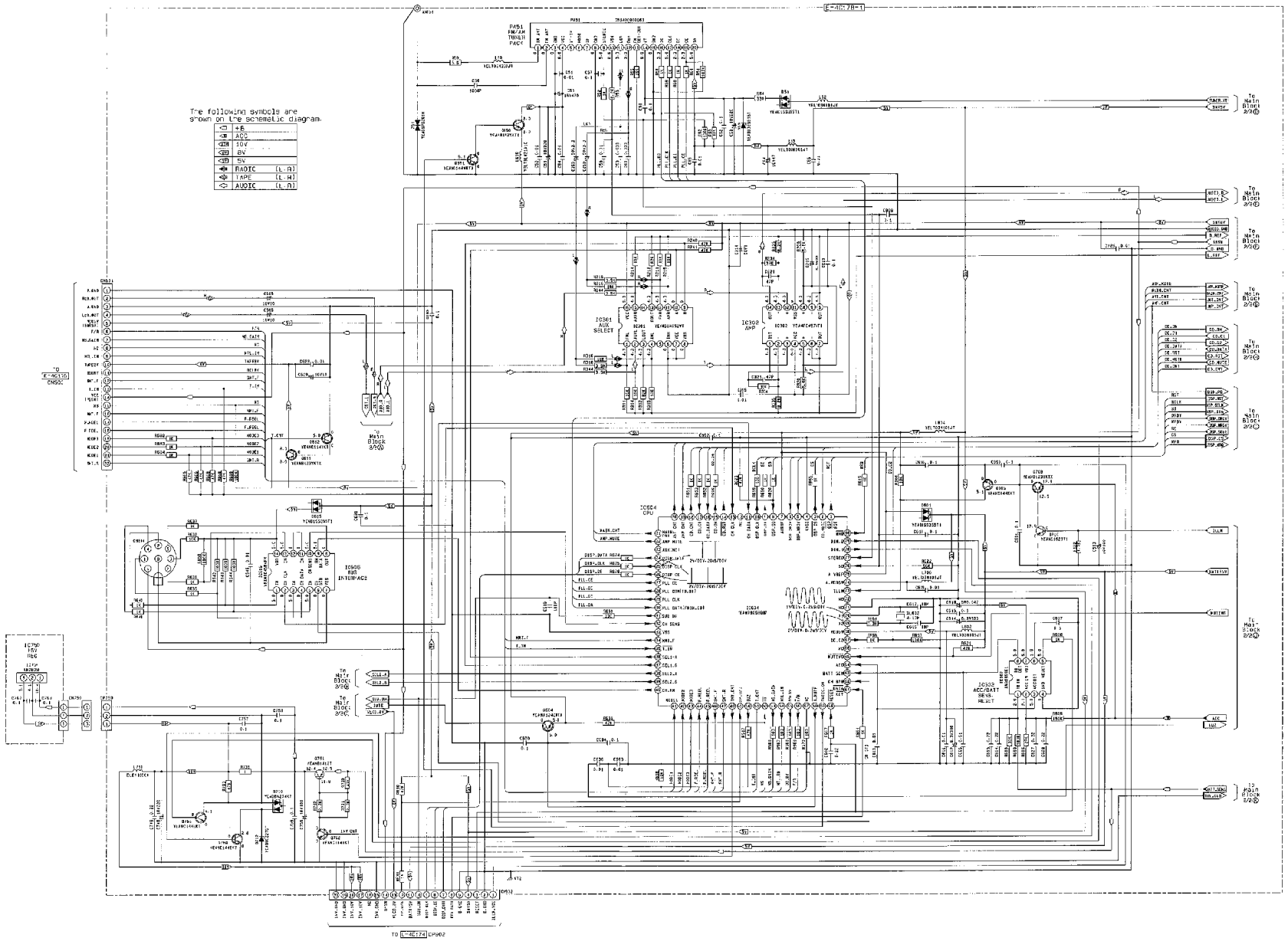


[E-4C174] [TOP VIEW]

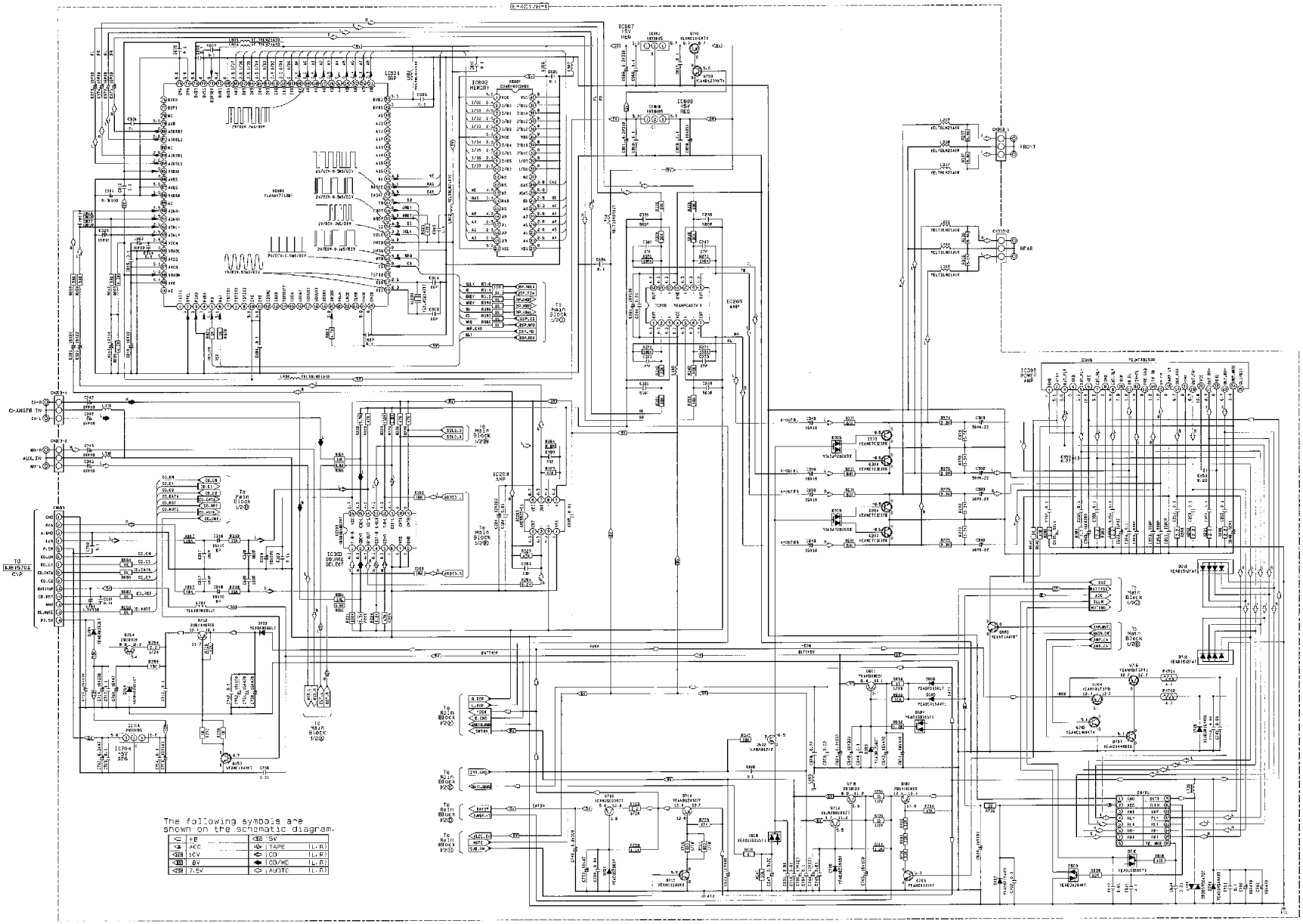
WIRING DIAGRAM (CD Servo Block) MODEL CQ-VX303EW



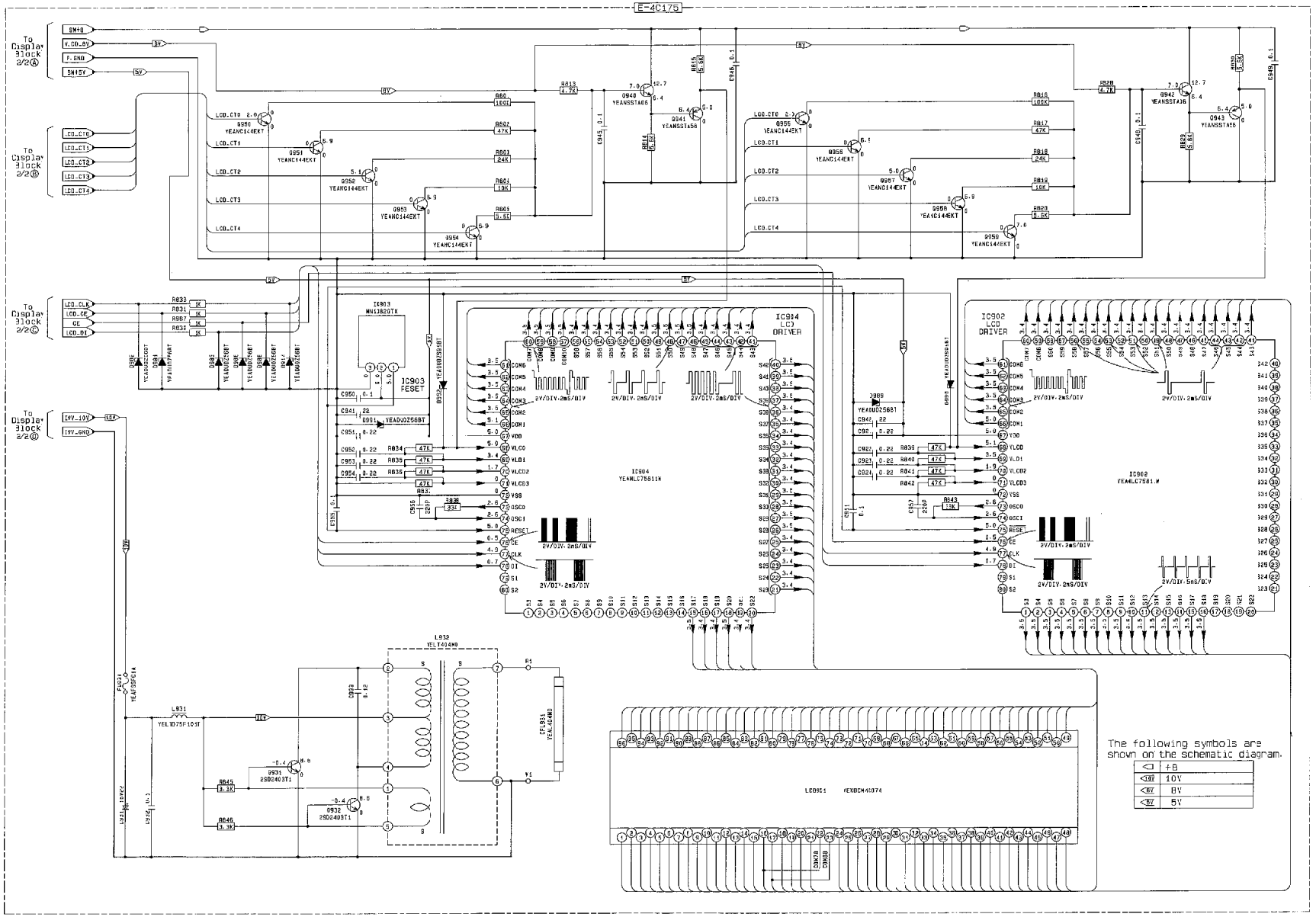
SCHEMATIC DIAGRAM (Main Block -1) MODEL CQ-VX303EW



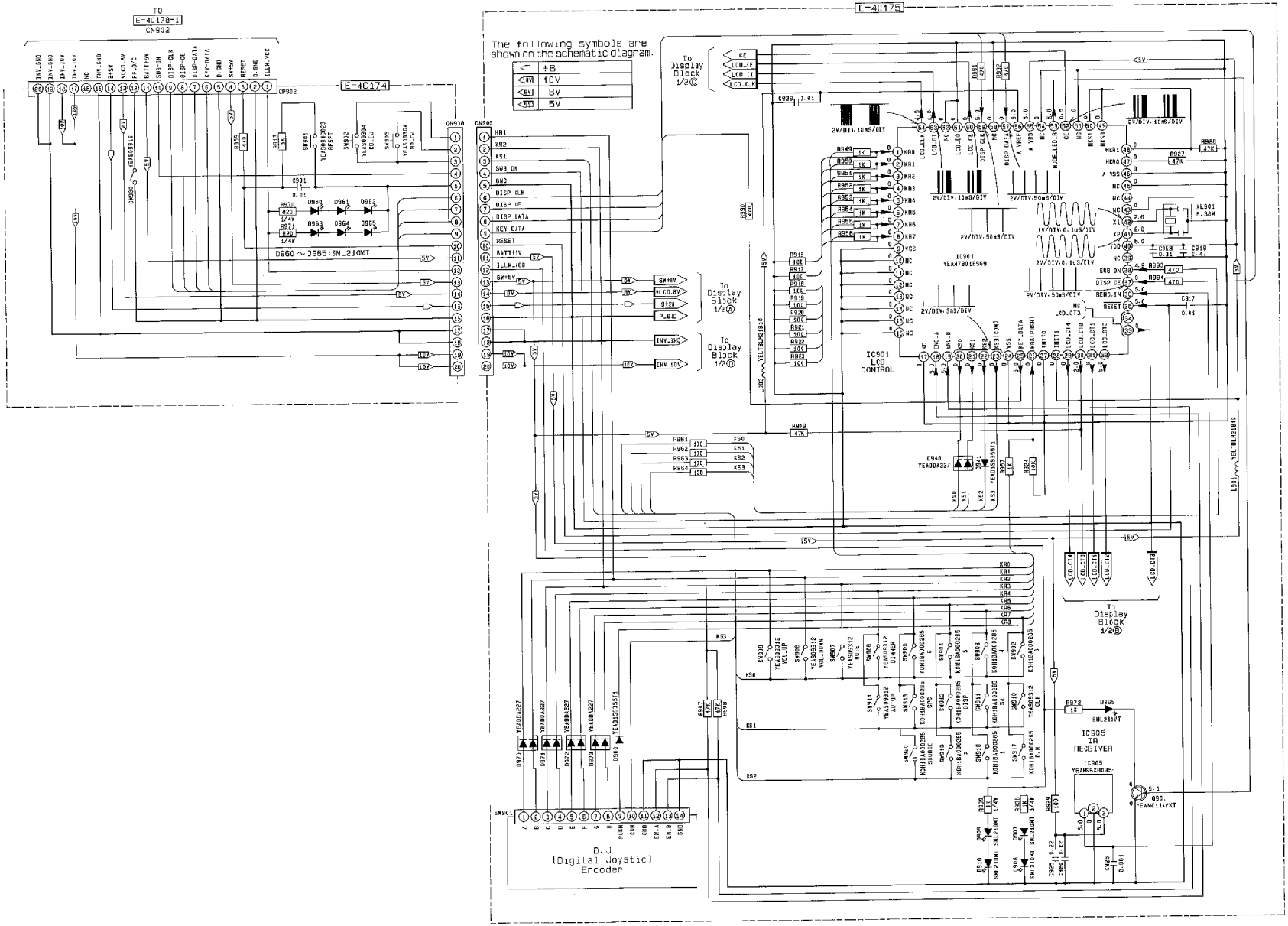
SCHEMATIC DIAGRAM (Main Block -2) MODEL CQ-VX303EW



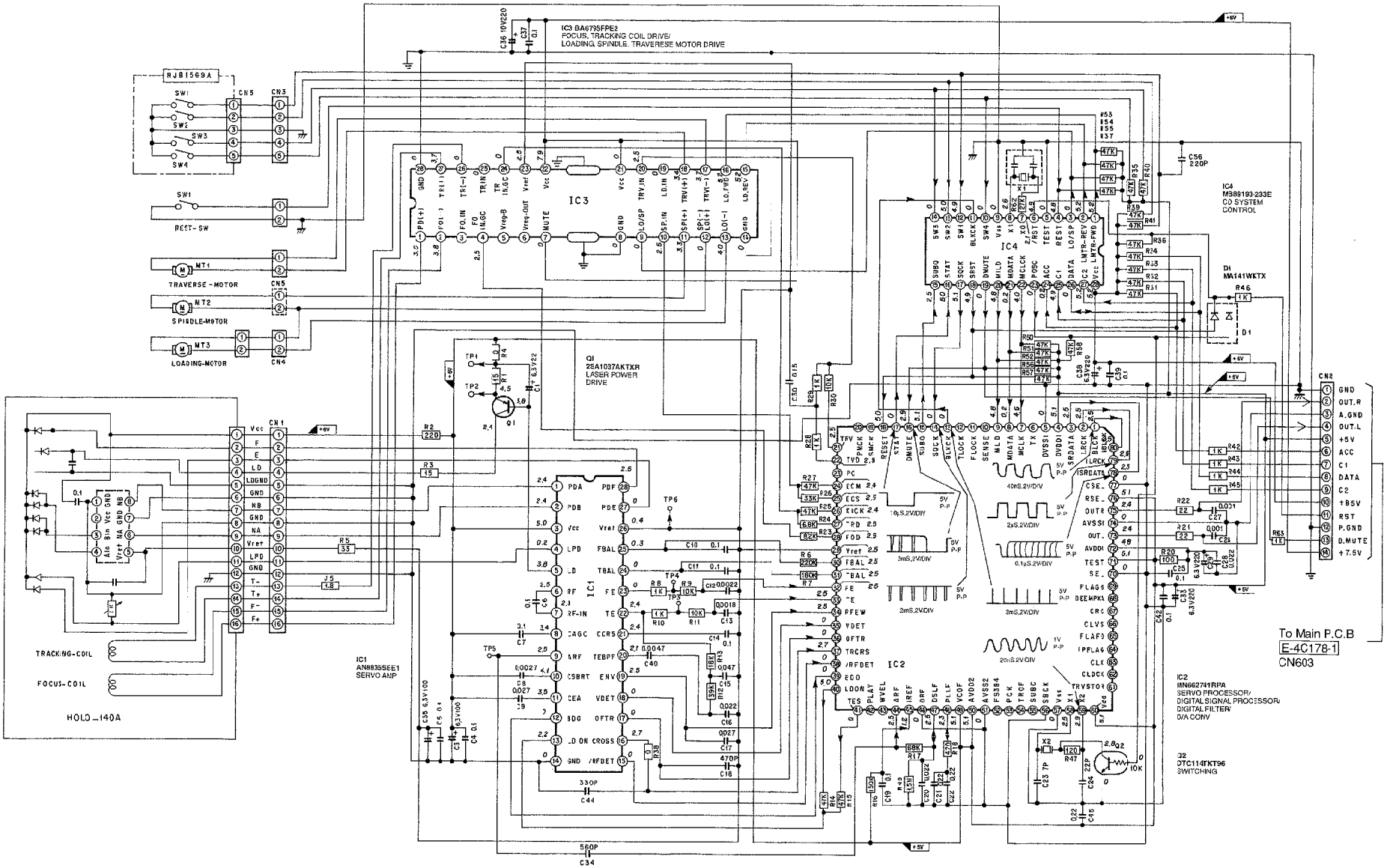
SCHEMATIC DIAGRAM (Display Block -1) MODEL CQ-VX303EW



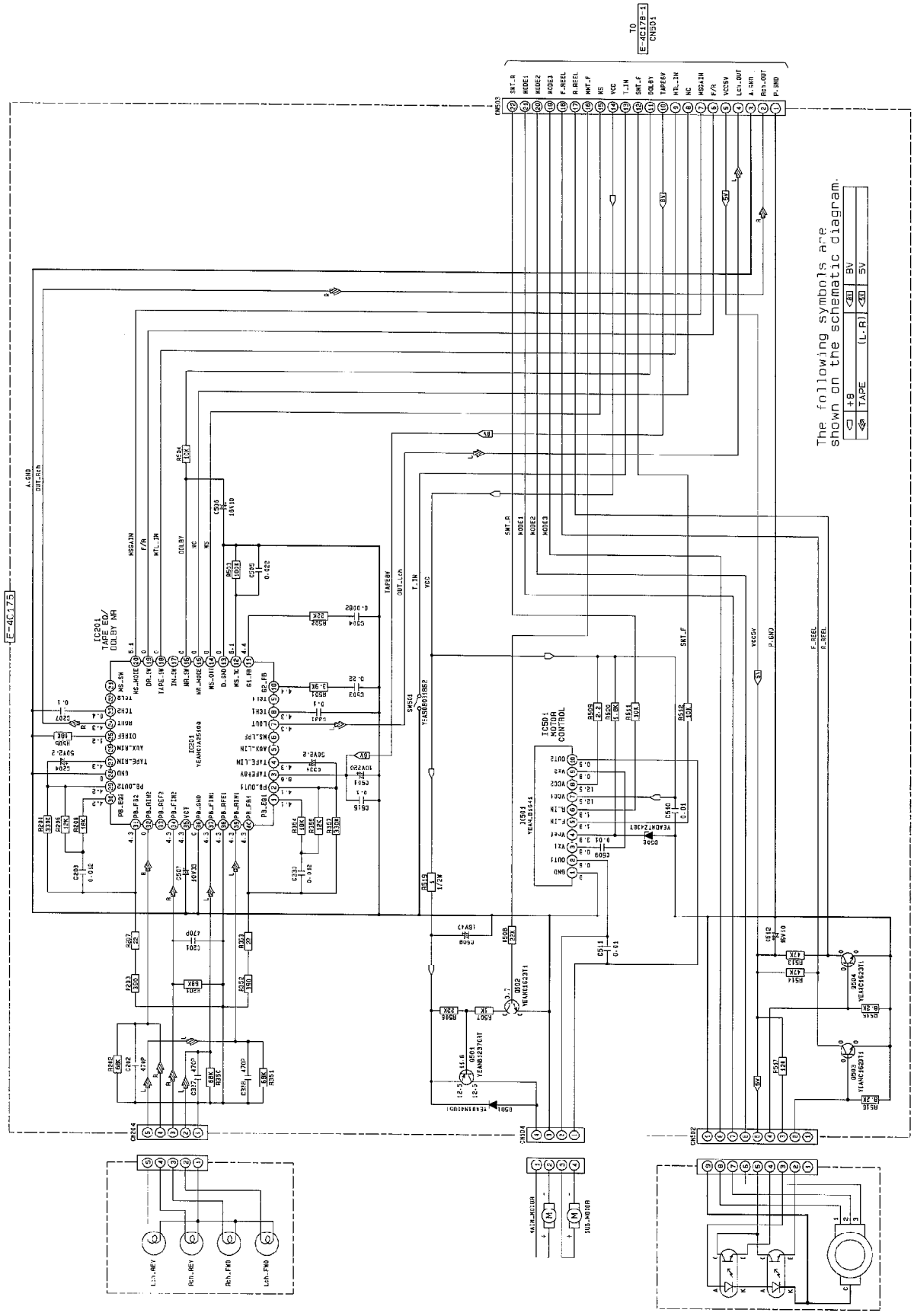
SCHEMATIC DIAGRAM (Display Block -2/ Interface Block) MODEL CQ-VX303EW



SCHEMATIC DIAGRAM (CD Servo Block) MODEL CQ-VX303EW

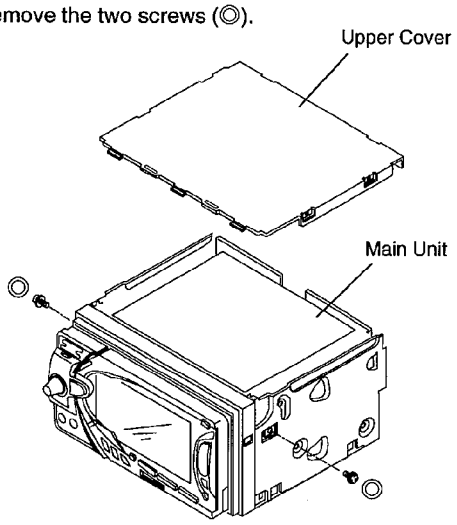


SCHEMATIC DIAGRAM (Dolby Block) MODEL CQ-VX303EW

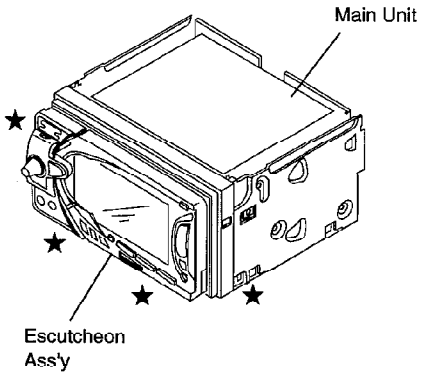


DISASSEMBLY INSTRUCTIONS

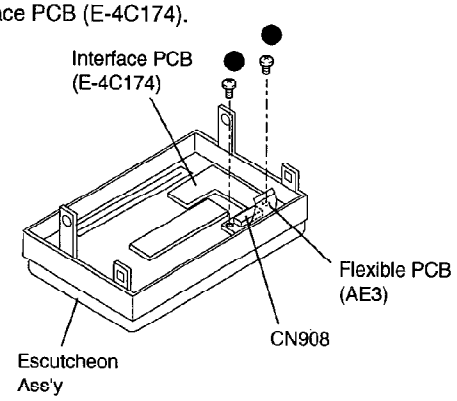
1. Remove the upper cover.
2. Remove the two screws (◎).



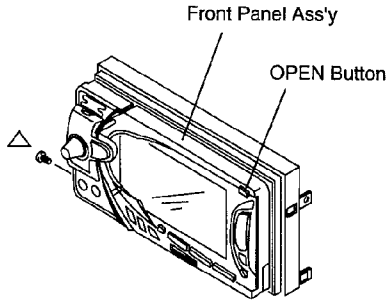
3. Pull out the escutcheon ass'y by pushing the four claws (★) of the escutcheon.



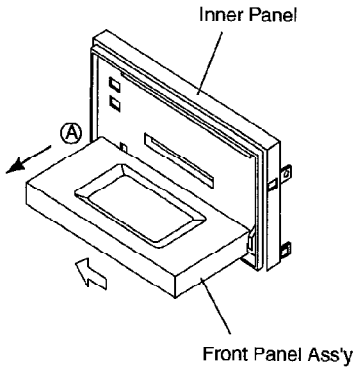
4. Remove the two screws (●).
   Disconnect the flexible PCB (AE3) from CN908 on the Interface PCB (E-4C174).



5. Remove the screw (△).
6. Push the OPEN button to open the front panel ass'y.



7. Remove the lower left end of front panel ass'y from the gear (Ⓐ) located on the lower left of inner panel.
8. Slightly pull the the front panel ass'y to left side, then remove the front panel ass'y from the inner panel.



TERMINALS DESCRIPTION (1)

■ IC604 YEAM78058B87 (Main Block)

Pin No.	Name	Description	I/O	Vol. (V)			
				FM	AM	CD	TAPE
1	DSP RST	Reset output for DSP LSI	O	5.0	5.0	5.0	5.0
2	CD MUTE	CD in detection signal	I	0	0	0	0
3	DPS CS	Chip select for DSP LSI	O	0	0	0	0
4	AVSS	Ground	–	0	0	0	0
5	DSP WRDY	Write ready signal input for DSP LSI	I	5.0	5.0	5.0	5.0
6	DSP DRDY	Read ready signal input for DSP LSI	I	0	0	0	0
7	AVREF	Reference voltage for A/D converter	I	5.0	5.0	5.0	5.0
8	DSP SO	DSP data input	I	0	0	0	0
9	DSP SI	DSP data output	O	5.0	5.0	5.0	5.0
10	DSP CLK	DSP clock output	O	5.0	5.0	5.0	5.0
11	CH DATA	Cganger bus data input	I	3.2	3.2	1.7	1.7
12	(NC)	–	–	–	–	–	–
13	CH CLK	Changer clock input	I	3.2	3.2	1.7	1.7
14	CD RST	Reset output for CD deck u-com	O	5.0	5.0	5.0	5.0
15	CD ON	Request signal for CD deck u-com	O	5.0	5.0	0	5.0
16	CD DATA	CD deck u-com bus data input	I	5.0	5.0	5.0	5.0
17	CD C1	CD deck u-com bus data output	O	5.0	5.0	5.0	5.0
18	CD CNT	CD power control	O	5.0	5.0	5.0	5.0
19	AMP CNT	External power amp control output	O	5.0	5.0	5.0	5.0
20	ANT CNT	Motor antenna control output	O	5.0	5.0	0	0
21	MAIN CNT	Main power control output	O	5.0	5.0	5.0	5.0
22	AMP MUTE	Power amp mute signal output	O	5.0	5.0	5.0	5.0
23	AUX (NC)	–	–	–	–	–	–
24	DISP DATA	Display CPU data output	O	0	0	0	0
25	DISP CLK	Display CPU clock output	O	5.0	5.0	5.0	5.0
26	DISP CE	Display CPU chip enable	O	0	0	0	0
27	PLL CE	PLL chip enable	O	0	0	0	0
28	PLL COM	PLL data output	O	0	0	0	0
29	PLL CLK	PLL clock output	O	5.0	5.0	5.0	5.0
30	PLL DATA	PLL data input	I	3.2	3.2	1.7	1.7
31	SUB ON	Sub system power control output	O	5.0	5.0	5.0	5.0
32	CH SENS	CD/MD changer detection input	I	5.0	5.0	5.0	5.0
33	VSS	Ground	–	0	0	0	0
34	MMT-F	Tape main motor control output	O	0	0	0	5.0
35	T-IN	Tape insertion detecting signal input	I	5.0	5.0	5.0	0
36	SEL1-A	IC1 control output A	O	0	8.6	0	0
37	SEL1-B	IC1 control output B	O	0	8.6	0	0
38	SEL2-A	IC2 control output A	O	0	0	8.6	8.6
39	SEL2-B	IC2 control output B	O	0	0	0	8.6
40	CH RM	Remote control signal output	O	5.0	5.0	5.0	5.0

Pin No.	Name	Description	I/O	Vol. (V)			
				FM	AM	CD	TAPE
41	MODE1	Tape deck mode-1 signal input	I	5.0	5.0	5.0	0
42	MODE2	Tape deck mode-2 signal input	I	5.0	5.0	5.0	5.0
43	MODE3	Tape deck mode-3 signal input	I	0	0	0	5.0
44	F REEL	Tape forward reel pulse input	I	0	0	0	0
45	R REEL	Tape reverse reel pulse input	I	5.0	5.0	5.0	0
46	SMT F	Tape sub motor forward control	O	5.0	5.0	5.0	5.0
47	SMT R	Tape sub motor reverse control	O	5.0	5.0	5.0	5.0
48	INV CNT	Inverter ON/OFF for LCD back light	O	5.0	5.0	5.0	5.0
49	FP O/C	Front panel OPEN/CLOSE detection	I	0	0	0.1	0
50	BUZ	Buzzer signal output	O	0	0	0	0
51	T CNT	Tape deck pre-amp power control	O	5.0	5.0	5.0	5.0
52	MS	Tape non music detection	I	5.0	5.0	5.0	0
53	MS GAIN	TPS detection sensitivity selector	O	0	0	0	5.0
54	MTL IN	Tape type selector	O	0	0	0	0
55	DOLBY	Dolby NR ON/OFF control output	O	0	0	0	0
56	F/R	Forward/reverse control output	O	0	0	0	0
57	(NC)	–	–	0	0	0	0
58	A MUTE	Analog mute control	O	5.0	5.0	5.0	5.0
59	RADIO ON	Radio ON signal output	O	5.0	5.0	0	0
60	RESET	System reset signal input	I	5.0	5.0	5.0	5.0
61	DATA KEY	Key command data input	I	5.0	5.0	5.0	5.0
62	CH STB	CH/MD changer strobe	I	3.2	3.2	1.7	1.7
63	BATT SEN	Back up power supply detection	I	5.0	5.0	5.0	5.0
64	ACC	Accessory power supply detection	I	5.0	5.0	5.0	5.0
65	MUTING	Interrupt mute detection signal input	I	5.0	5.0	5.0	5.0
66	(NC)	(Connecting to ground)	–	0	0	0	0
67	CD C1	CD CPU data output	O	5.0	5.0	5.0	5.0
68	VDD 5V	+5V power supply	–	5.0	5.0	5.0	5.0
69	X2	Main system clock output	O	2.8	2.8	2.8	2.8
70	X1	Main system clock input	I	2.5	2.5	2.5	2.5
71	(NC)	(Connecting to ground)	–	0	0	0	0
72	NC (NC)	–	–	–	–	–	–
73	ILLM	Illumination input	I	5.0	5.0	0	5.0
74	A VDD 5V	+5V power supply	–	5.0	5.0	0	5.0
75	A VREF	+5V power supply	–	5.0	5.0	5.0	5.0
76	SD	Radio signal strength detection input	I	2.3	2.3	1.0	1.0
77	STEREO	FM MPX stereo reception signal input	I	5.0	5.0	1.4	1.4
78	DIM 1	Back light dimmer signal output 1	O	0	0	0	0
79	DIM 2	Back light dimmer signal output 2	O	0	0	0	0
80	WRQ	Register reset output for DSP LSI	I	5.0	5.0	5.0	5.0

TERMINALS DESCRIPTION (2)

■ IC801 YEAMAK7712BF (Main Block)

Pin No.	Name	Description	I/O	Vol.(V)
1	TSTI1 (NC)	–	–	–
2	OPCL	ADC/DAC connection selector	I	0
3	PDAD	AD reset control	I	0
4	PDDA	DA reset control	I	0
5	PD	Power down	I	5.0
6	RST	Reset input	I	5.0
7	TSTI01 (NC)	–	–	–
8	TSTI02 (NC)	–	–	–
9	TSTI03 (NC)	–	–	–
10,11	DVB	+5V digital power supply	–	5.0
12	SDIN2 (NC)	–	–	–
13	SDAD (NC)	–	–	–
14	SDOUT2 (NC)	–	–	–
15	SDDA (NC)	–	–	–
16	SDDA2 (NC)	–	–	–
17	SDOUT3 (NC)	–	–	–
18	SDOUT1 (NC)	–	–	–
19	SDIN1 (NC)	–	–	–
20	SMODE	Interface clock selector	I	5.0
21	BCLK (NC)	–	–	–
22	LRCK (NC)	–	–	–
23	CLKO (NC)	–	–	–
24	DVDD	+5V digital power supply	–	5
25	DVSS	Digital ground	–	0
26	XTI	Crystal OSC input	I	2.3
27	XTO	Crystal OSC output	O	2.6
28	TSTI2 (NC)	–	–	–
29	CS	Chip select input	I	0
30	WRQ	Command register reset input	I	5.0
31	DVSS	Digital ground	–	0
32	DVDD	+5V digital power supply	–	5.0
33	SCLK	Clock input for serial data	I	3.3
34	SI	Serial data input	I	4.8
35	WRDY	Data write-in ready output	O	5.0
36	DRDY	Data read-out ready output	O	0
37	SO	Serial data output	O	0
38	CASRF	CAS/dummy SRAM refresh	O	3.8
39	RASCE	RAS/dummy SRAM-CE	O	3.1
40	WE	Write signal output	O	4.8
41-48	A16-A9 (NC)	–	–	–
49	DVSS	Digital ground	–	0
50	DVDD	+5V digital power supply	–	5.0

Pin No.	Name	Description	I/O	Vol.(V)
51	A8	Address output	O	2.3
52	A7	Address output	O	2.4
53	A6	Address output	O	2.4
54	A5	Address output	O	0
55	A4	Address output	O	0
56	A3	Address output	O	2.5
57	A2	Address output	O	0
58	A1	Address output	O	2.5
59	A0	Address output	O	2.5
60	OE	Output enable signal	O	2.5
61-68	IO0-IO7	Data input/output	I/O	2.5
69	DVSS	Digital ground	–	0
70	DVDD	+5V digital power supply	–	5
71	DZFSET	Zero check output setting	I	0
72	DVSS	Digital ground	–	0
73	DVDD	+5V digital power supply	–	5.0
74,75	DVB	+5V digital power supply	–	5.0
76	DZF2 (NC)	–	–	–
77	DZF1 (NC)	–	–	–
78	(NC)	–	–	–
79	AVB	+5V analog power supply	–	5.0
80	AOUTR2	DAC2 Rch analog output	O	2.5
81	AOUTL2	DAC2 Lch analog output	O	2.5
82	(NC)	–	–	–
83	AOUTR1	DAC1 Rch analog output	O	2.5
84	AOUTL1	DAC1 Lch analog output	O	2.5
85	VRDAL	(Connecting to ground)	I	0
86	AVSS	Analog ground	–	0
87	AVDD	+5V analog power supply	–	5.0
88	VRDAH	(Connecting to +5V)	I	5.0
89	(NC)	–	–	–
90	AINR-	ADC Rch analog input	I	2.5
91	AINR+	ADC Rch analog input	I	2.5
92	AINL-	ADC Lch analog input	I	2.5
93	AINL+	ADC Lch analog input	I	2.5
94	VCOM	Common voltage	O	2.5
95	VRADL	(Connecting to +5V)	I	5.0
96	AVSS	Analog ground	–	0
97	AVDD	+5V analog power supply	–	5.0
98	VRADH	(Connecting to +5V)	I	5.0
99	AVB	+5V analog power supply	–	5.0
100	(NC)	–	–	–

TERMINALS DESCRIPTION (3)

■ IC901 YEAM78016569 (Main Block)

Pin No.	Port	Description	I/O	Vol.(V)
1	KR0	Key return 0 signal input	I	0
2	KR1	Key return 1 signal input	I	0
3	KR2	Key return 2 signal input	I	0
4	KR3	Key return 3 signal input	I	0
5	KR4	Key return 4 signal input	I	0
6	KR5	Key return 5 signal input	I	0
7	KR6	Key return 6 signal input	I	0
8	KR7	Key return 7 signal input	I	0
9	VSS	Ground	-	0
10	(NC)	–	–	–
11	(NC)	–	–	–
12	(NC)	–	–	–
13	(NC)	–	–	–
14	(NC)	–	–	–
15	(NC)	–	–	–
16	(NC)	–	–	–
17	(NC)	–	–	–
18	ENC A	Encoder A input	I	5.0
19	ENC B	Encoder B input	I	5.0
20	KS0	Key scan 0 signal output	O	0
21	KS1	Key scan 1 signal output	O	0
22	KS2	Key scan 2 signal output	O	0
23	KS3(COM)	]Key scan 3 signal output	O	0
24	VSS	Ground	–	0
25	KEY DATA	Key command data output	O	5.0
26	KR8(PUSH)	Key return 8 signal input	I	0
27	INT0	Destination setting 0	I	0
28	INT1	Destination setting 1	I	0
29	LCD CT4	LCD Drive Reference Voltage Control 4	O	0
30	LCD CT0	LCD Drive Reference Voltage Control 0	O	2.0
31	LCD CT1	LCD Drive Reference Voltage Control 1	O	0
32	LCD CT2	LCD Drive Reference Voltage Control 2	O	5.0
33	LCD CT3	LCD Drive Reference Voltage Control 3	O	0
34	(NC)	–	–	–
35	RESET	Reset signal input	I	5.0
36	REMO IN	Remote control signal input	I	5.0
37	DISP CE	Chip enable input	I	0
38	SUB ON	Submit signal input	I	5.0
39	(NC)	–	–	–
40	VDD	+5V power supply	–	5.0
41	X2	Main system clock	–	2.8
42	X1	Main system clock	–	2.6
43	(NC)	–	–	–
44	(NC)	–		
45	(NC)	–	–	–
46	AVSS	Ground	–	0
47	HKR0	Hand power RC 0 det. Input	I	0
48	HKR1	Hand power RC 1 det. Input	I	0
49	HKS0	Hand power RC key source 0	O	0
50	HKS1	Hand power RC key source 1	O	0
51	(NC)	–	–	–
52	CE	LCD driver chip enable output	O	0.5
53	MODE LED R	LED on signal output	O	5.0
54	(NC)	–	–	–
55	AVDD	+5V power supply	–	5.0
56	AVREF	+5V power supply	–	5.0
57	DISP DATA	Display data input	I	0
58	(NC)	–	–	–
59	DISP CLK	Display clock	I	5.0
60	LCD CE	LCD chip enable output	O	0
61	LCD DO	LCD data input	I	0
62	(NC)	–	–	–
63	LCD DI	LCD data output	O	1.0
64	LCD CLK	LCD clock	O	5.0

■ IC902 YEAMLC75811W (Display Block)

Pin No.	Name	Description	I/O	Vol.(V)
1-16	S3-S18	LCD segment	O	3.5
17-40	S19-S42 (NC)	–	–	–
41-58	S43-S58	LCD segment	O	3.5
59-65	COM8-COM2	Common data output	O	3.5
66	COM1	Common data output	O	5
67	VDD	+5V power supply	–	5
68	VLCD	LCD drive ref. voltage	I	5
69	VLCD1	LCD drive ref. voltage	I	3.5
70	VLCD2	LCD drive ref. voltage	I	2
71	VLCD3	LCD drive ref. voltage	I	0
72	VSS	Ground	–	0
73	OSCO	CR oscillator	O	2.6
74	OSCI	CR oscillator	I	2.6
75	/RESET	Reset input	I	5
76	CE	LCD chip enable	I	0.5
77	CLK	LCD clock	I	4.8
78	DI	LCD data	I	0.7
79	S1 (NC)	–	–	–
80	S2 (NC)	–	–	–

■ IC904 YEAMLC75811W (Display Block)

Pin No.	Port	Description	I/O	Vol.(V)
1-14	S3-S16 (NC)	–	–	–
15-56	S17-S58	LCD segment	O	3.5
57-65	COM10-COM2	Common data output	O	3.5
66	COM1	Common data output	O	5.0
67	VDD	+5V power supply	–	5.0
68	VLCD	LCD drive ref. Voltage	I	5.0
69	VLCD1	LCD drive ref. Voltage	I	3.5
70	VLCD2	LCD drive ref. Voltage	I	1.7
71	VLCD3	LCD drive ref. Voltage	I	0
72	VSS	Ground	–	0
73	OSCO	CR oscillator	O	2.5
74	OSCI	CR oscillator	I	2.5
75	/RESET	Reset input	I	5.0
76	CE	LCD chip enable	I	0.5
77	CLK	LCD clock	I	5.0
78	DI	LCD data	I	0.7
79	S1 (NC)	–	–	–
80	S2 (NC)	–	–	–

TERMINALS DESCRIPTION (CD Servo Block)

■ IC2 MN662741RPA

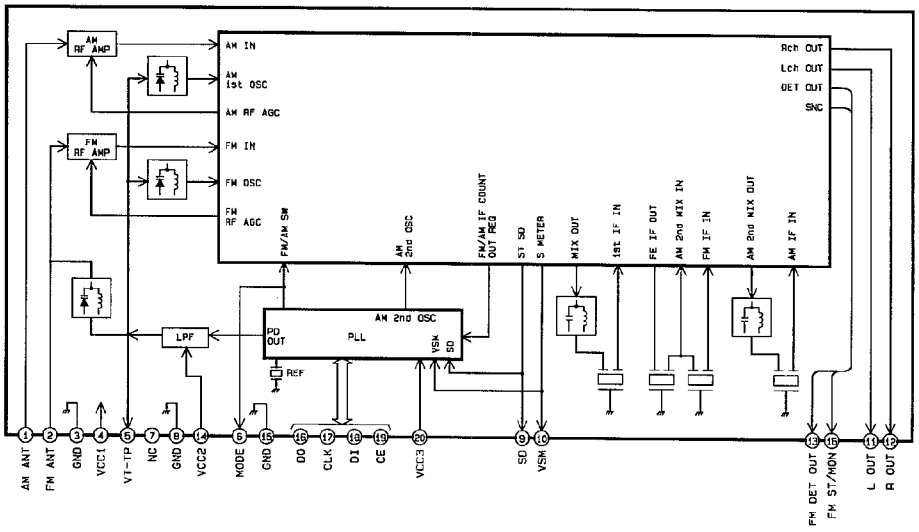
Pin No.	Name	Description	I/O	Vol.(V)
1	BCLK	Bit clock output	O	2.5
2	LRCK	Lch/Rch select output	O	2.5
3	SRDATA	Serial data output	O	2.5
4	DVDD1	+5V power supply	I	5.1
5	DVSS1	Ground	I	0
6	TX	Not used	–	–
7	MCLK	Command clock input	I	4.6
8	MDATA	Command data input	I	0.2
9	MLD	Command load input	I	4.8
10	SENSE	Not used	–	–
11	/FLOCK	Not used	–	–
12	/TLOCK	Not used	–	–
13	BLKCK	Sub code block output	O	0
14	SQCK	Sub code-Q clock input	I	0
15	SUBQ	Sub code-Q output	O	5.1
16	DMUTE	Mute signal input	I	2.9
17	STAT	Status signal input	O	0
18	/RST	Reset input	I	5
19	SMCK	Not used	–	–
20	PMCK	Not used	–	–
21	TRV	Traverse Motor control output	O	2.5
22	TVD	Traverse Motor control output	O	2.5
23	PC	Not used	–	–
24	ECM	Spindle motor drive output	O	2.4
25	ECS	Spindle motor drive output	O	2.5
26	KICK	Kick pulse signal output	O	2.4
27	TRD	Tracking drive output	O	2.5
28	FOD	Focus drive output	O	2.6
29	VREF	Reference voltage input	I	2.5
30	FBAL	Focus balance output	O	2.5
31	TBAL	Tracking balance output	O	2.5
32	FE	Focus error input	I	2.5
33	TE	Tracking error input	I	2.5
34	RFENV	RF envelope input	I	2.5
35	VDET	Vibration detecting signal input	I	0
36	OFT	Off track signal input	I	0
37	TRCRS	Track cross signal input	I	2.7
38	/RFDET	RF detection signal input	I	0
39	BDO	Drop out signal input	I	0
40	LDON	Laser on signal output	O	5
41	TES	Tracking error shunt output	O	0
42	PLAY	Not used	–	–
43	WVEL	Not used	–	–
44	ARE	RF signal input	I	2.5
45	IRFF	Reference current input	I	1.2
46	DRF	(Connecting to ground)	I	0
47	DSLF	DSL loop filter	I/O	2.5
48	PLLF	PLL loop filter	I/O	2.3
49	VCOF	(Connecting to +5V)	–	5.1
50	AVDD2	+5V power supply	–	5.1
51	AFSS2	Ground	–	0
52	EFN	Not used	–	–
53	PCK	Not used	–	–
54	PDO	Not used	–	–
55	SUBC	Not used	–	–
56	SBCK	(Connecting to ground)	–	0
57	VSS	Ground	–	0
58	X1	Crystal oscillator	–	2.5
59	X2	Crystal oscillator	–	2.9
60	VDD	+5V power supply	–	5.1
61	BYTCK	Not used	–	–
62	CLDCK	Not used	–	–
63	FCLK	Not used	–	–
64	!PFLAG	Not used	–	–
65	FLAG	Not used	–	–
66	CLVS	Not used	–	–
67	CRC	Not used	–	–
68	DEMPH	Not used	–	–
69	RESY	Not used	–	–
70	/RST2	(Connecting to ground)	–	0
71	/TEST	(Connecting to +5V)	–	5.1
72	AVDD1	+5V power supply	–	4.8
73	OUTL	Lch output	O	2.4
74	AVSS1	Ground	–	0
75	OUTR	Rch output	O	2.4
76	RSEL	(Connecting to +5V)	I	5.1
77	CSEL	(Connecting to ground)	–	0
78	ISRDATA	Serial data input	I	2.5
79	ILRCK	Lch/Rch select input	I	2.5
80	IBCLK	Output mode selector	I	2.5

■ IC4 MB89193-323E

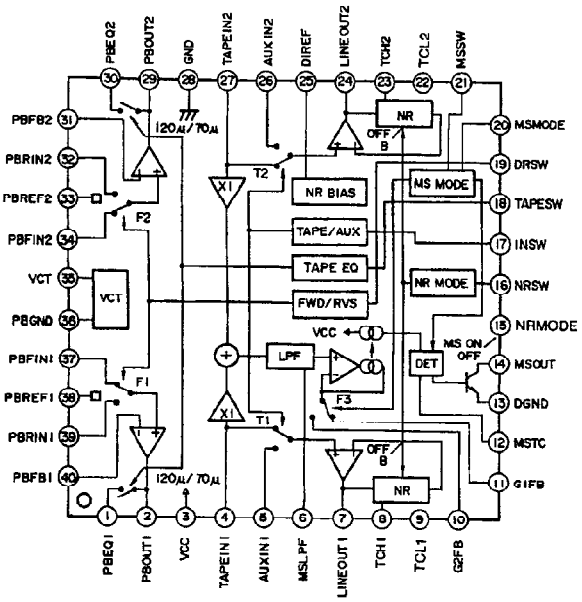
Pin No.	Name	Description	I/O	Vol.(V)
1	LMTR FWD	Forword limiter	O	5.2
2	LMTR REV	Reverse limiter	O	5.2
3	LO/SP	Motor control	O	0
4	REST	Reset	I	4.8
5	TEST	(Connecting to ground)	–	0
6	/RST	Reset	I	4.9
7	XO	Crystal oscillator	–	2.1
8	XI	Crystal oscillator	–	2.6
9	VSS	Ground	–	0
10	SW4	Switch 4 input	I	0
11	BLKCK	Sub code block clock	I	0
12	SW1	Switch 1 input	I	4.9
13	SW2	Switch 2 input	I	5.0
14	SW3	Switch 3 input	I	0
15	SUBQ	Sub code-Q input	I	2.5
16	STAT	Status input	I	5.0
17	SQCK	Sub code-Q external clock	O	5.1
18	SRST	Reset output	O	4.9
19	DMUTE	Mute output	O	0
20	MLD	MPU command load	O	4.8
21	MDATA	MPU command data	O	0.2
22	MCLCK	MPU command clock	O	4.6
23	POSC	OSC control	O	0
24	ACC	ACC detection input	I	0.2
25	C1	Clock for CD	I	4.9
26	DATA	Data for CD	I/O	0
27	C2	Clock for CD	I	5.2
28	VCC	+5V power supply	–	5.2

PACKAGE AND IC BLOCK DIAGRAM (1)

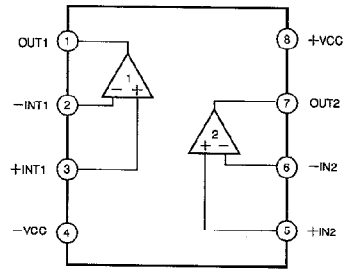
■ PA51 YEAU03J056 [E-4C178-1]



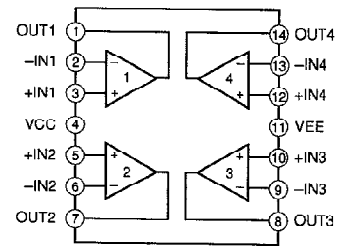
■ IC201 YEAMCXA2510Q [E-4C176]



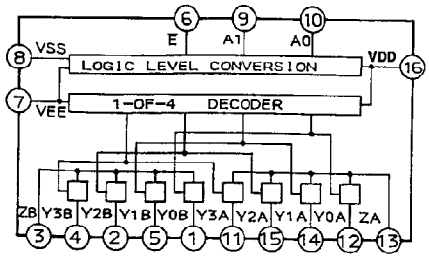
■ IC203 AN6552S [E-4C178-1]



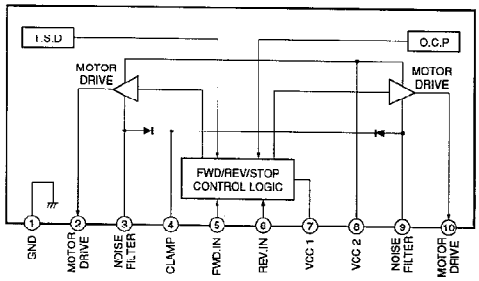
■ IC205, 302 YEAMPC4574T1 [E-4C178-1]



■ IC301, 303 YEAMBU4052VT [E-4C178-1]

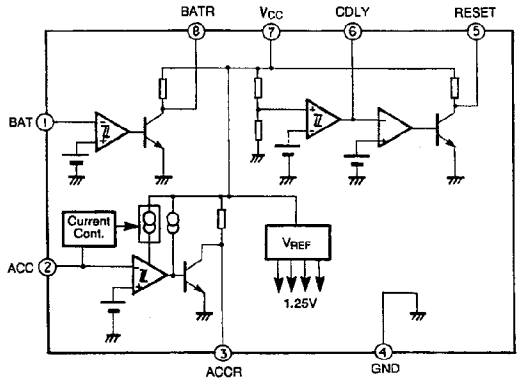


■ IC501 YEAMLB1641 [E-4C176]

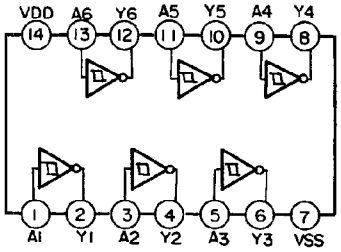


PACKAGE AND IC BLOCK DIAGRAM (2)

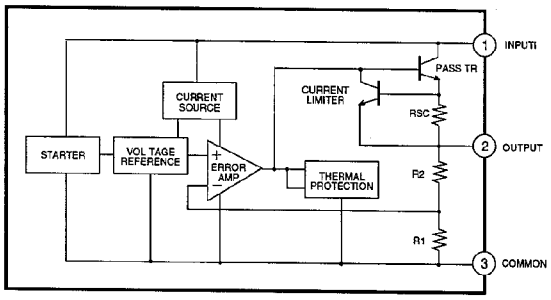
■ IC602 AN8065SE1 [E-4C178-1]



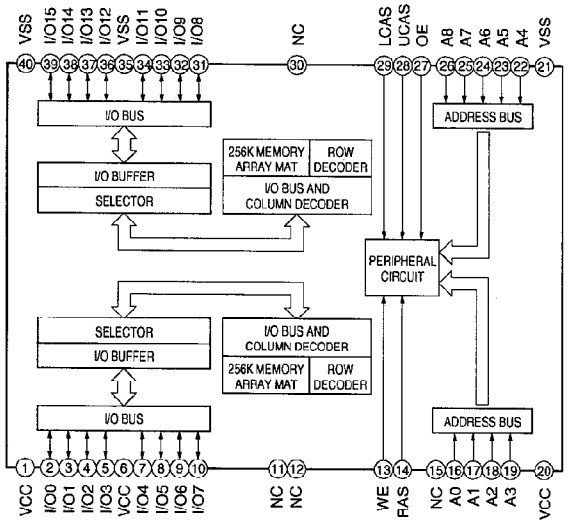
■ IC606 YEAMTC4584FN [E-4C178-1]



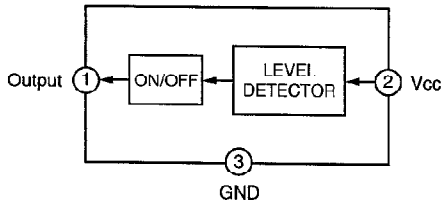
■ IC704 AN78N05 [E-4C178-1]
■ IC750 AN7805F [E-4C178-1]
■ IC807, 808 AN78N05 [E-4C178-1]



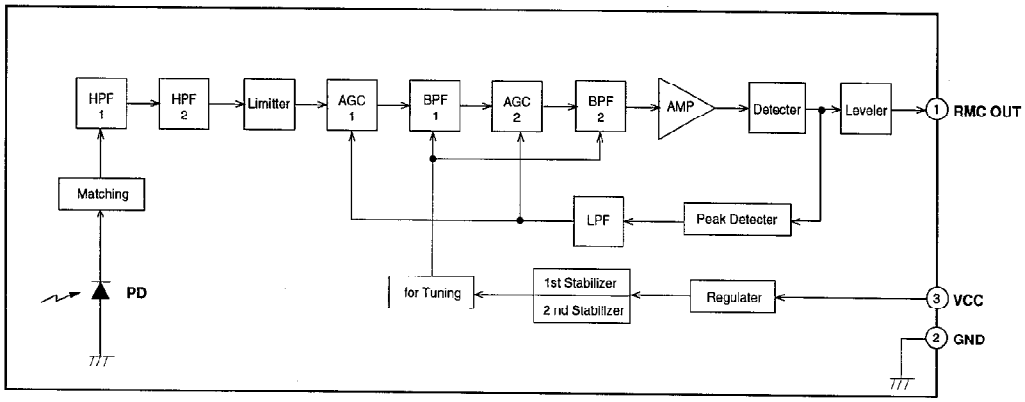
■ IC802 C3ABFG000001 [E-4C178-1]


VSS I/O15 I/O14 I/O13 I/O12 VSS I/O11 I/O10 I/O9 I/O8
40 39 38 37 36 35 34 33 32 31
NC 30
LCAS UCAS OE A8 A7 A6 A5 A4 VSS
29 28 27 26 25 24 23 22 21
I/O BUS
I/O BUFFER
SELECTOR
256K MEMORY ARRAY MAT
ROW DECODER
I/O BUS AND COLUMN DECODER
ADDRESS BUS
PERIPHERAL CIRCUIT
SELECTOR
I/O BUFFER
I/O BUS AND COLUMN DECODER
256K MEMORY ARRAY MAT
ROW DECODER
I/O BUS
ADDRESS BUS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
VCC I/O0 I/O1 I/O2 I/O3 VCC I/O4 I/O5 I/O6 I/O7 NC NC WE RAS NC A0 A1 A2 A3 VCC

■ IC903 MN1382QTX [E-4C175]

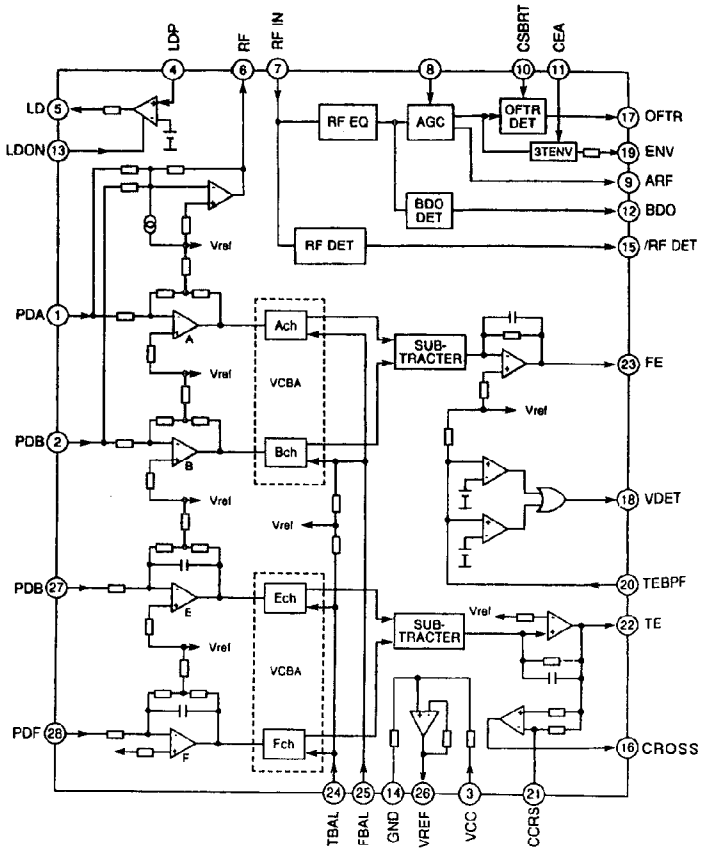


■ IC905 YEAMSBX8035F [E-4C175]

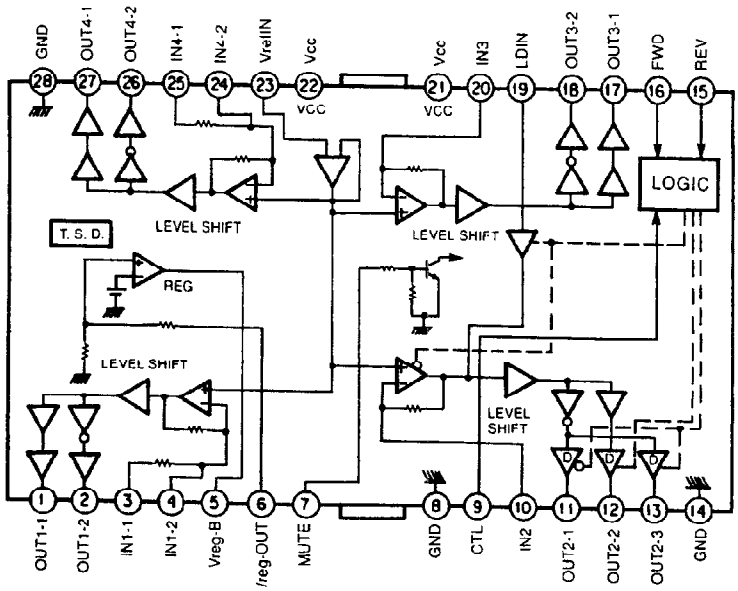


PACKAGE AND IC BLOCK DIAGRAM (CD Servo Block)

■ IC1 AN8835SBE1 [RJB1570A]



■ IC1 BA6795FPE2 [RJB1570A]



1 Replacement Parts List

Note:

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a load map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
5. "T" marks in remarks column are indicated supply parts of TAMACO.

1.1. IC's and Transistors

MAIN BLOCK [E-4C178-1]

Ref. No.	Part No.	Part Name & Description	Remarks
IC203	AN6552S	IC	
IC205	YEAMPC4574T1	IC	T
IC301	YEAMBU4052VT	IC	
IC302	YEAMPC4574T1	IC	T
IC303	YEAMBU4052VT	IC	
IC306	YEAMTA8259H	IC	T
IC602	AN8065SE1	IC	
IC604	YEAM78058B87	IC	T
IC606	YEAMTC4584FN	IC	T
IC704	AN78N05	IC	
IC750	AN7805F	IC	
IC801	YEAMAK7712BF	IC	
IC802	C3ABFG000001	IC	
IC807	AN78N05	IC	
IC808	AN78N05	IC	
PA51	YEAU03E056	Pack, FM/AM Tuner	T
Q203	YEANDTC323TK	Transistor	T
Q204	YEANDTC323TK	Transistor	T
Q303	YEANDTC323TK	Transistor	T
Q304	YEANDTC323TK	Transistor	T
Q601	YEAND1862T	Transistor	
Q602	YEANA812T2	Transistor	
Q604	YEANA124EKTX	Transistor	
Q605	YEANC144EKT	Transistor	
Q611	YEANB123YKTX	Transistor	T
Q612	YEANC114YKT	Transistor	
Q650	YEANB123YKTX	Transistor	T
Q651	YEANC144WKTX	Transistor	
Q702	2SB1440RTX	Transistor	T
Q703	YEANC114YKT	Transistor	
Q704	YEANHQ1F3PT1	Transistor	
Q705	YEANC144WKTX	Transistor	
Q706	YEANHQ1F3PT1	Transistor	
Q707	YEANC144WKTX	Transistor	
Q708	YEANB123YKTX	Transistor	T
Q710	YEANC1623T1	Transistor	T
Q713	YEAN2SD2007	Transistor	
Q714	YEANB1243QRT	Transistor	
Q715	YEANC114YKT	Transistor	
Q716	YEAN2SD2007	Transistor	
Q718	2SD2139	Transistor	T
Q749	YEANC114EKTX	Transistor	
Q750	YEANB123YKTX	Transistor	T
Q752	2SB1440RTX	Transistor	T
Q753	YEANC114YKT	Transistor	
Q754	2SD2139	Transistor	T
Q760	YEANC144EKT	Transistor	
Q761	YEANB1412T	Transistor	T
Q762	YEANC114YKT	Transistor	
Q763	YEANC144EKT	Transistor	

DOLBY BLOCK [E-4C176]

Ref. No.	Part No.	Part Name & Description	Remarks
IC201	YEAMCXA2510Q	IC	T
IC501	YEAMLB1641	IC	T
Q501	YEANB1237QRT	Transistor	
Q502	YEANC1623T1	Transistor	T
Q503	YEANC1623T1	Transistor	T
Q504	YEANC1623T1	Transistor	T

DISPLAY BLOCK [E-4C175]

Ref. No.	Part No.	Part Name & Description	Remarks
IC901	YEAM78016569	IC	
IC902	YEAMLC75811W	IC	T
IC903	MN1382QTX	IC	
IC904	YEAMLC75811W	IC	T
IC905	YEAMSBX8035F	IC	
Q901	YEANC114YKT	Transistor	
Q931	2SD2403T1	Transistor	T
Q932	2SD2403T1	Transistor	T
Q940	YEANSSTA06	Transistor	T
Q941	YEANSSTA56	Transistor	T
Q942	YEANSSTA06	Transistor	T
Q943	YEANSSTA56	Transistor	T
Q950	YEANC144EKT	Transistor	
Q951	YEANC144EKT	Transistor	
Q952	YEANC144EKT	Transistor	
Q953	YEANC144EKT	Transistor	
Q954	YEANC144EKT	Transistor	
Q955	YEANC144EKT	Transistor	
Q956	YEANC144EKT	Transistor	
Q957	YEANC144EKT	Transistor	
Q958	YEANC144EKT	Transistor	
Q959	YEANC144EKT	Transistor	

1.2. Diodes

MAIN BLOCK [E-4C178-1]

Ref. No.	Part No.	Part Name & Description	Remarks
D51	YEAD1SS355T1	Diode	
D53	YEADUDZS91BT	Zener Diode	T
D205	YEADAP202KTX	Diode	
D211	YEAD1SD2FAT	Diode	T
D305	YEADAP202KTX	Diode	
D311	YEAD1SD2FAT	Diode	T
D600	YEADDA204KT	Diode	T
D601	YEAD1SS355T1	Diode	
D603	YEADRLZ56CT	Zener Diode	T
D604	YEAD1SS355T1	Diode	
D605	YEADSR1544TL	Diode	
D606	YEADRB160LT	Diode	
D608	YEAD1SS355T1	Diode	
D610	YEAD1SS355T1	Diode	
D615	YEAD1SS355T1	Diode	
D701	YEAD1N5404UT	Diode	T
D702	YEADSR1544TL	Diode	
D703	YEADRB060LT	Diode	T
D704	YEADRB060LT	Diode	T
D705	YEADSR1544TL	Diode	
D710	YEADDA204KT	Diode	T
D712	YEADUDZ27BT	Zener Diode	T
D720	YEADUDZS91BT	Zener Diode	T
D721	YEADUDZ56BT	Zener Diode	T
D754	YEADUDZS91BT	Zener Diode	T

DOLBY BLOCK [E-4C176]

Ref. No.	Part No.	Part Name & Description	Remarks
D501	YEAD1N4005T	Diode	T
D502	YEADMTZ43BT	Diode	T

INTERFACE BLOCK [E-4C174]

Ref. No.	Part No.	Part Name & Description	Remarks
D960	SML210MT	LED (Green)	T
D961	SML210MT	LED (Green)	T
D962	SML210MT	LED (Green)	T
D963	SML210MT	LED (Green)	T
D964	SML210MT	LED (Green)	T
D965	SML210MT	LED (Green)	T

DISPLAY BLOCK [E-4C175]

Ref. No.	Part No.	Part Name & Description	Remarks
D900	YEAD1SS355T1	Diode	
D907	SML210MT	LED (Green)	T
D908	SML210MT	LED (Green)	T
D909	SML210MT	LED (Green)	T
D910	SML210MT	LED (Green)	T
D914	YEADUDZ56BT	Zener Diode	T
D940	YEADDA227	Diode	T
D941	YEAD1SS355T1	Diode	
D965	SML210VT	LED (Red)	T
D970	YEADDA227	Diode	T
D971	YEADDA227	Diode	T
D972	YEADDA227	Diode	T
D973	YEADDA227	Diode	T
D981	YEADUDZ56BT	Zener Diode	T
D982	YEADUDZ56BT	Zener Diode	T
D983	YEADUDZ56BT	Zener Diode	T
D986	YEADUDZ56BT	Zener Diode	T
D988	YEADUDZ56BT	Zener Diode	T
D989	YEADUDZ56BT	Zener Diode	T
D990	YEADUDZS91BT	Zener Diode	T
D991	YEADUDZ56BT	Zener Diode	T
D992	YEADUDZS91BT	Zener Diode	T

1.3. Capacitors

MAIN BLOCK [E-4C178-1]

Ref. No.	Part No.	Part Name & Description	Remarks
C50	ECUV1H102KBN	Ceramic, 0.001MFD 50WV	T
C51	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C52	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C53	ECEA1AKS221I	Electrolytic, 220MFD 10WV	
C54	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C55	ECEA1CU471	Electrolytic, 470MFD 16WV	
C57	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C58	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C59	ECUV1C333KBV	Ceramic, 0.033MFD 16WV	T
C60	ECUV1C333KBV	Ceramic, 0.033MFD 16WV	T
C61	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C62	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C63	ECEA1AKS221I	Electrolytic, 220MFD 10WV	
C64	ECEA1CKS470I	Electrolytic, 47MFD 16WV	
C65	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C66	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C216	ECEA0JKS330	Electrolytic, 33MFD 6.3WV	
C217	ECUV1H181KBV	Ceramic, 180PF 50WV	T
C218	ECEA1CSN100I	Electrolytic,10MFD 16WV	
C219	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C220	ECUV1H181KBV	Ceramic, 180PF 50WV	T
C221	ECUV1H470JCV	Ceramic, 47PF 50WV	T
C223	ECEA1AKS221I	Electrolytic, 220MFD 10WV	
C224	ECEA1AKS221I	Electrolytic, 220MFD 10WV	
C226	ECEA1CKS220I	Electrolytic, 22MFD 16WV	
C229	ECUV1H561KBN	Ceramic, 560PF 50WV	T
C233	ECUV1H270JCV	Ceramic, 27PF 50WV	T
C235	ECUV1H561KBV	Ceramic, 560PF 50WV	T
C240	ECUV1H270JCV	Ceramic, 27PF 50WV	T
C242	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C243	ECEA1CKS100I	Electrolytic,10MFD 16WV	
C244	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C249	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C250	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C253	ECUV1H561KBV	Ceramic, 560PF 50WV	T
C254	ECUV1H561KBV	Ceramic, 560PF 50WV	T
C255	ECUV1C104KBV	Ceramic, 0.1MFD 16WV	T
C256	ECUV1C104KBV	Ceramic, 0.1MFD 16WV	T
C257	ECUV1C104KBV	Ceramic, 0.1MFD 16WV	T
C258	ECUV1C104KBV	Ceramic, 0.1MFD 16WV	T
C259	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C261	ECUV1H152KBV	Ceramic, 0.015MFD 50WV	T
C281	ECEA1AKS101	Electrolytic, 100MFD 10WV	
C282	ECEA1HKSR22I	Electrolytic, 0.22MFD 50WV	
C283	ECEA1HKSR22I	Electrolytic, 0.22MFD 50WV	
C299	ECUV1H330JCV	Ceramic, 33PF 50WV	T
C314	ECEA1HKS010I	Electrolytic, 1MFD 50WV	
C315	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C317	ECUV1H181KBV	Ceramic, 180PF 50WV	T
C318	ECEA1CSN100I	Electrolytic, 10MFD 16WV	
C320	ECUV1H181KBV	Ceramic, 180PF 50WV	T
C321	ECUV1H470JCV	Ceramic, 47PF 50WV	T
C323	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C324	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C326	ECEA1CKS220I	Electrolytic, 22MFD 16WV	
C329	ECUV1H561KBV	Ceramic, 560PF 50WV	T
C333	ECUV1H270JCV	Ceramic, 27PF 50WV	T
C335	ECUV1H561KBV	Ceramic, 560PF 50WV	T
C340	ECUV1H270JCV	Ceramic, 27PF 50WV	T
C342	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C343	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C349	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C350	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C353	ECUV1H561KBV	Ceramic, 560PF 50WV	T
C354	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C355	ECUV1C104KBV	Ceramic, 0.1MFD 16WV	T
C356	ECUV1C104KBV	Ceramic, 0.1MFD 16WV	T
C357	ECUV1C104KBV	Ceramic, 0.1MFD 16WV	T
C358	ECUV1C104KBV	Ceramic, 0.1MFD 16WV	T
C359	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C360	ECA1CDT472Y	Ceramic, 0.0047MFD 16WV	
C382	ECEA1HKSR22I	Electrolytic, 0.22MFD 50WV	
C383	ECEA1HKSR22I	Electrolytic, 0.22MFD 50WV	
C399	ECUV1H330JCV	Ceramic, 33PF 50WV	T
C513	ECEA1CKS101I	Electrolytic, 100MFD 16WV	
C605	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C606	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C607	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C608	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C609	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C610	ECUV1H181KBV	Ceramic, 180PF 50WV	T
C611	ECUV1H103KBN	Ceramic, 0.01MFD 50WV	T
C612	ECEA0JKS331I	Electrolytic, 330MFD 6.3WV	
C613	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C614	ECEA0JKS331I	Electrolytic, 330MFD 6.3WV	
C615	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C616	ECUV1H180JCV	Ceramic, 18PF 50WV	T
C617	ECUV1H180JCV	Ceramic, 18PF 50WV	T
C618	EECS0HD473H	Ceramic, 0.047MFD 5.5WV	T
C619	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C620	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C621	ECEA0JKS331I	Electrolytic, 330MFD 6.3WV	
C622	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C623	ECEA1CKS101I	Electrolytic, 100MFD 16WV	
C624	ECEA1CKS101I	Electrolytic, 100MFD 16WV	
C627	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C628	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C629	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C630	ECUV1C104KBV	Ceramic, 0.1MFD 16WV	T
C631	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C633	ECEA1CKS470I	Electrolytic, 47MFD 16WV	
C634	ECUV1H103KBN	Ceramic, 0.01MFD 50WV	T
C635	ECEA1HKS010I	Electrolytic, 1MFD 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C636	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C637	ECUV1H103KBN	Ceramic, 0.01MFD 50WV	T
C640	ECEA1AM331IV	Electrolytic, 330MFD 10WV	T
C641	ECUV1H104ZFM	Ceramic, 0.1MFD 50WV	T
C643	ECEA1CU471	Electrolytic, 470MFD 16WV	
C644	ECUV1H104ZFM	Ceramic, 0.1MFD 50WV	T
C646	ECUV1H103KBN	Ceramic, 0.01MFD 50WV	T
C647	ECEA0JKS220I	Electrolytic, 22MFD 6.3WV	
C648	ECEA1HKS010I	Electrolytic, 1MFD 50WV	
C649	ECUV1H103KBN	Ceramic, 0.01MFD 50WV	T
C651	ECEA1CU471	Electrolytic, 470MFD 16WV	
C654	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C655	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C656	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C666	ECUV1H103KBN	Ceramic, 0.01MFD 50WV	T
C684	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C690	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C698	ECUV1C224ZFN	Ceramic, 0.22MFD 16WV	T
C699	ECUV1C224ZFN	Ceramic, 0.22MFD 16WV	T
C700	ECEA1CU471	Electrolytic, 470MFD 16WV	
C701	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C702	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C703	ECEA1CU471	Electrolytic, 470MFD 16WV	
C706	ECEA1CKS101I	Electrolytic, 100MFD 16WV	
C707	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C708	ECEA1AKS221I	Electrolytic, 220MFD 10WV	
C710	ECUV1H103KBM	Ceramic, 0.01MFD 50WV	T
C712	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C713	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C714	ECEA1AM331IV	Electrolytic, 330MFD 10WV	T
C715	ECEA1AM331IV	Electrolytic, 330MFD 10WV	T
C717	ECEA0JKS470I	Electrolytic, 47MFD 6.3WV	
C718	ECUV1H103KBN	Ceramic, 0.01MFD 50WV	T
C723	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C725	ECUV1H103KBM	Ceramic, 0.01MFD 50WV	T
C738	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C739	ECEA1AKS470	Electrolytic, 47MFD 10WV	
C740	ECEA0JKS101I	Electrolytic, 100MFD 6.3WV	
C741	ECEA0JKS331I	Electrolytic, 330MFD 6.3WV	
C742	ECUV1H104ZFN	Ceramic, 0.1MFD50WV	T
C743	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C744	ECEA1AM331IV	Electrolytic, 330MFD 10WV	T
C745	ECUV1H103KBN	Ceramic, 0.01MFD 50WV	T
C748	ECEA1AKS221I	Electrolytic, 220MFD 10WV	
C749	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C750	ECEA1CU471	Electrolytic, 470MFD 16WV	
C751	ECEA1CU471	Electrolytic, 470MFD 16WV	
C752	ECEA1CKS101I	Electrolytic, 100MFD 16WV	
C753	ECEA1AKS101	Electrolytic, 100MFD 10WV	
C754	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C755	ECEA1CKS101I	Electrolytic, 100MFD 16WV	
C756	ECUV1H103KBN	Ceramic, 0.01MFD 50WV	T
C757	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C758	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C759	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C760	ECUV1H104ZFM	Ceramic, 0.1MFD 50WV	T
C761	ECEA1CKS470I	Electrolytic, 47MFD 16WV	
C762	ECEA1CKS470I	Electrolytic, 47MFD 16WV	
C767	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C768	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C801	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C802	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C803	ECUV1H120JCN	Ceramic, 12PF 50WV	T
C804	ECUV1H120JCN	Ceramic, 12PF 50WV	T
C805	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C806	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C807	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C808	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C809	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C810	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C811	ECEA0JKS101I	Electrolytic, 100MFD 6.3WV	
C812	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C813	ECEA1CKS100I	Electrolytic, 10MFD 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C814	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C815	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C816	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C823	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C824	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C825	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C826	ECUV1H332KBN	Ceramic, 0.0033MFD 50WV	T
C827	ECUV1H332KBN	Ceramic, 0.0033MFD 50WV	T
C828	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C858	ECEA1AKS221I	Electrolytic, 220MFD 10WV	
C859	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C860	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C861	ECEA0JKS331I	Electrolytic, 330MFD 6.3WV	
C867	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C868	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C869	ECEA0JKS331I	Electrolytic, 330MFD 6.3WV	
C872	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C874	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C876	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C878	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C888	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C889	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C890	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C891	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C892	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C893	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T
C895	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C896	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T

DOLBY BLOCK [E-4C176]

Ref. No.	Part No.	Part Name & Description	Remarks
C201	ECUV1H471KBN	Ceramic, 470PF 50WV	T
C202	ECUV1H471KBM	Ceramic, 470PF 50WV	T
C203	ECUV1H123KBN	Ceramic, 0.012MFD 50WV	T
C204	ECEA1HKS2R2I	Electrolytic, 2.2MFD 50WV	
C207	ECUV1H104KBN	Ceramic, 0.1MFD 50WV	T
C327	ECUV1H471KBN	Ceramic, 470PF 50WV	T
C328	ECUV1H471KBM	Ceramic, 470PF 50WV	T
C330	ECUV1H123KBN	Ceramic, 0.012MFD 50WV	T
C331	ECUV1H104KBN	Ceramic, 0.1MFD 50WV	T
C334	ECEA1HKS2R2I	Electrolytic, 2.2MFD 50WV	
C501	ECEA1AKS221I	Electrolytic, 220MFD 10WV	
C503	ECUV1C224KBN	Ceramic, 0.22MFD 16WV	T
C504	ECUV1H822KBN	Ceramic, 0.0082MFD 50WV	T
C505	ECUV1H223KBN	Ceramic, 0.022MFD 50WV	T
C506	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C507	ECEA1AKS330I	Electrolytic, 33MFD 10WV	
C508	ECEA1CKS470I	Electrolytic, 47MFD 16WV	
C509	ECUV1H103KBN	Ceramic, 0.01MFD 50WV	T
C510	YEE05Y103N	Ceramic, 0.01MFD 50WV	
C511	ECUV1H103KBN	Ceramic, 0.01MFD 50WV	T
C512	ECEA1CKS100I	Electrolytic, 10MFD 16WV	
C515	ECUV1H104ZFN	Ceramic, 0.1MFD 50WV	T

INTERFACE BLOCK [E-4C174]

Ref. No.	Part No.	Part Name & Description	Remarks
C901	ECUV1H103KBN	Ceramic, 0.01MFD 50WV	T

DISPLAY BLOCK [E-4C175]

Ref. No.	Part No.	Part Name & Description	Remarks
C911	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C917	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C918	ECUV1H103KBV	Ceramic, 0.01MFD 50WV	T
C919	YECSV1VM474R	Electrolytic, 0.47MFD 35WV	T
C920	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C921	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C922	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C923	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C924	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C925	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C926	ECUV1H102KBN	Ceramic, 0.001MFD 50WV	T
C929	ECUV1H103KBN	Ceramic, 0.01MFD 50WV	T

Ref. No.	Part No.	Part Name & Description	Remarks
C931	ECEV1CA220SR	Electrolytic, 22MFD 16WV	
C932	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C933	YECUM2A124JN	Ceramic, 0.12MFD 100WV	T
C941	YECSV1CM226R	Electrolytic, 22MFD 16WV	T
C942	YECSV1CM226R	Electrolytic, 22MFD 16WV	T
C945	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C946	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C948	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C949	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C950	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C951	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C952	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C953	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C954	ECUV1C224ZFV	Ceramic, 0.22MFD 16WV	T
C955	ECUV1C104ZFV	Ceramic, 0.1MFD 16WV	T
C956	ECUV1H221KBV	Ceramic, 220PF 50WV	T
C957	ECUV1H221KBV	Ceramic, 220PF 50WV	T

1.4. Resistors

MAIN BLOCK [E-4C178-1]

Ref. No.	Part No.	Part Name & Description	Remarks
R50	ERJ6GEYJ5R6	Chip, 5.6 ohms 1/10W	
R51	ERJ6GEYJ104	Chip, 100k ohms 1/10W	
R52	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R53	ERJ3GEYJ822V	Chip, 8.2k ohms 1/16W	
R55	ERJ3GEYJ393V	Chip, 39k ohms 1/16W	
R58	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R59	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R60	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R61	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R62	ERJ6GEYJ104	Chip, 100k ohms 1/10W	
R63	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R64	ERJ6GEYJ331	Chip, 330 ohms 1/10W	
R122	ERJ3GEYJ472V	Chip, 4.7k ohms 1/16W	
R208	ERJ6GEYJ681	Chip, 680 ohms 1/10W	
R211	ERJ3GEYJ103V	Chip, 10k ohms1/16W	
R212	ERJ3GEYJ823V	Chip, 82k ohms 1/16W	
R214	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R215	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R216	ERJ6GEYJ183	Chip, 18k ohms 1/10W	
R217	ERJ6GEYJ183	Chip, 18k ohms 1/10W	
R218	ERJ6GEYJ392	Chip, 3.9k ohms 1/10W	
R219	ERJ3GEYJ153V	Chip, 15k ohms 1/16W	
R220	ERJ3GEYJ562V	Chip, 5.6k ohms 1/16W	
R221	ERJ3GEYJ104V	Chip, 100k ohms 1/16W	
R222	ERJ3GEYJ332V	Chip, 3.3k ohms 1/16W	
R223	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R224	ERJ3GEYJ182V	Chip, 1.8k ohms 1/16W	
R225	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R226	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R234	ERJ3GEYJ333V	Chip, 33k ohms 1/16W	
R235	ERJ3GEYJ822V	Chip, 8.2k ohms 1/16W	
R236	ERJ3GEYJ562V	Chip, 5.6k ohms 1/16W	
R237	ERJ3GEYJ562V	Chip, 5.6k ohms 1/16W	
R238	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R240	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R241	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R242	ERJ6GEYJ303V	Chip, 30k ohms 1/10W	T
R244	ERJ6GEYJ392	Chip, 3.9k ohms 1/10W	
R256	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R260	ERJ3GEYJ303V	Chip, 30k ohms 1/16W	
R264	ERJ6GEYJ822	Chip, 8.2k ohms 1/10W	
R265	ERJ6GEYJ183	Chip, 18k ohms 1/10W	
R266	ERJ3GEYJ682V	Chip, 6.8k ohms 1/16W	
R268	ERJ6GEYJ183	Chip, 18k ohms 1/10W	
R269	ERJ6GEYJ331	Chip, 330 ohms 1/10W	
R270	ERJ3GEYJ104V	Chip, 100k ohms 1/16W	
R271	ERJ3GEYJ104V	Chip, 100k ohms 1/16W	
R274	ERJ3GEYJ681V	Chip, 680 ohms 1/16W	
R275	ERJ6GEYJ222	Chip, 2.2k ohms 1/10W	
R276	ERJ3GEYJ222V	Chip, 2.2k ohms 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R278	ERJ6GEYJ332	Chip, 3.3k ohms 1/10W	
R279	ERJ6GEYJ332	Chip, 3.3k ohms 1/10W	
R280	ERJ6GEYJ2R2	Chip, 2.2 ohms 1/10W	
R281	ERJ3GEYJ2R2V	Chip, 2.2 ohms 1/16W	
R282	ERJ3GEYJ2R2V	Chip, 2.2 ohms 1/16W	
R283	ERJ3GEYJ2R2V	Chip, 2.2 ohms 1/16W	
R311	ERJ6GEYJ103	Chip, 10k ohms 1/10W	
R312	ERJ6GEYJ823	Chip, 82k ohms 1/10W	
R314	ERJ6GEYJ103	Chip, 10k ohms 1/10W	
R315	ERJ6GEYJ103	Chip, 10k ohms 1/10W	
R316	ERJ3GEYJ183V	Chip, 18k ohms 1/16W	
R317	ERJ6GEYJ183	Chip, 18k ohms 1/10W	
R318	ERJ6GEYJ392	Chip, 3.9k ohms 1/10W	
R319	ERJ3GEYJ153V	Chip, 15k ohms 1/16W	
R320	ERJ3GEYJ562V	Chip, 5.6k ohms 1/16W	
R321	ERJ3GEYJ104V	Chip, 100k ohms 1/16W	
R322	ERJ3GEYJ332V	Chip, 3.3k ohms 1/16W	
R323	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R324	ERJ3GEYJ182V	Chip, 1.8k ohms 1/16W	
R325	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R326	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R334	ERJ3GEYJ333V	Chip, 33k ohms 1/16W	
R335	ERJ3GEYJ822V	Chip, 8.2k ohms 1/16W	
R336	ERJ3GEYJ562V	Chip, 5.6k ohms 1/16W	
R337	ERJ3GEYJ562V	Chip, 5.6k ohms 1/16W	
R338	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R342	ERJ3GEYJ303V	Chip, 30k ohms 1/16W	
R344	ERJ3GEYJ392V	Chip, 3.9k ohms 1/16W	
R356	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R360	ERJ6GEYJ303V	Chip, 30k ohms 1/10W	T
R364	ERJ6GEYJ822	Chip, 8.2k ohms 1/10W	
R365	ERJ6GEYJ183	Chip, 18k ohms 1/10W	
R366	ERJ6GEYJ682	Chip, 6.8k ohms 1/10W	
R368	ERJ6GEYJ183	Chip, 18k ohms 1/10W	
R369	ERJ6GEYJ331	Chip, 330 ohms 1/10W	
R370	ERJ3GEYJ104V	Chip, 100k ohms 1/16W	
R371	ERJ3GEYJ104V	Chip, 100k ohms 1/16W	
R373	ERJ3GEYJ681V	Chip, 680 ohms 1/16W	
R374	ERJ3GEYJ222V	Chip, 2.2k ohms 1/16W	
R375	ERJ3GEYJ681V	Chip, 680 ohms 1/16W	
R376	ERJ3GEYJ222V	Chip, 2.2k ohms 1/16W	
R378	ERJ3GEYJ332V	Chip, 3.3k ohms 1/16W	
R379	ERJ3GEYJ332V	Chip, 3.3k ohms 1/16W	
R380	ERJ3GEYJ2R2V	Chip, 2.2 ohms 1/16W	
R381	ERJ3GEYJ2R2V	Chip, 2.2 ohms 1/16W	
R382	ERJ3GEYJ2R2V	Chip, 2.2 ohms 1/16W	
R383	ERJ3GEYJ2R2V	Chip, 2.2 ohms 1/16W	
R566	ERJ3GEYJ101V	Chip, 100 ohms 1/16W	
R567	ERJ3GEYJ101V	Chip, 100 ohms 1/16W	
R568	ERJ3GEYJ101V	Chip, 100 ohms 1/16W	
R569	ERJ3GEYJ101V	Chip, 100 ohms 1/16W	
R570	ERJ3GEYJ101V	Chip, 100 ohms 1/16W	
R600	ERJ3GEYJ333V	Chip, 33k ohms 1/16W	
R605	ERJ3GEYJ154	Chip, 150k ohms 1/16W	T
R606	ERJ3GEYJ273V	Chip, 27k ohms 1/16W	
R607	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R608	ERJ8GEYJ102V	Chip, 1k ohms 1/8W	
R610	ERJ6GEYJ101	Chip, 100 ohms 1/10W	
R611	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R613	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R615	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R617	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R618	ERJ3GEYJ123V	Chip, 12k ohms 1/16W	
R619	ERJ6GEYJ101	Chip, 100 ohms 1/10W	
R620	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R621	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R622	ERJ3GEYJ563V	Chip, 56k ohms 1/16W	
R623	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R625	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R630	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R631	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R632	ERJ3GEYJ122V	Chip, 1.2k ohms 1/16W	
R633	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R634	ERJ12YJ100H	Chip, 10 ohms 1/2W	
R635	ERJ6GEYJ223	Chip, 22k ohms 1/10W	
R636	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R637	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R638	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R639	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R640	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R641	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R642	ERJ3GEYJ104V	Chip, 100k ohms 1/16W	
R643	ERJ3GEYJ104V	Chip, 100k ohms 1/16W	
R644	ERJ3GEYJ104V	Chip, 100kohms 1/16W	
R645	ERJ8GEYJ103V	Chip, 10k ohms 1/8W	
R646	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R647	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R648	ERJ6GEYJ103	Chip, 10k ohms 1/10W	
R649	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R650	ERJ3GEYJ104V	Chip, 100k ohms 1/16W	
R651	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R652	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R653	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R654	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R655	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R656	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R657	ERJ3GEYJ104V	Chip, 100k ohms 1/16W	
R658	ERJ6GEYJ471	Chip, 470 ohms 1/10W	
R660	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R661	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R664	ERJ3GEYJ332V	Chip, 3.3k ohms 1/16W	
R665	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R666	ERJ6GEYJ103	Chip, 10k ohms 1/10W	
R667	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R668	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R669	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R670	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R671	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R674	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R675	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R678	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R680	ERJ3GEYJ331V	Chip, 330 ohms 1/16W	
R681	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R682	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R683	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R684	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R685	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R686	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R688	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R689	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R690	ERJ3GEYJ104V	Chip, 100k ohms 1/16W	
R691	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R692	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R693	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R696	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R698	ERJ3GEYJ184V	Chip, 180k ohms 1/16W	
R706	ERJ3GEYJ331V	Chip, 330 ohms 1/16W	
R707	ERJ3GEYJ331V	Chip, 330 ohms 1/16W	
R708	ERJ8GEYJ331V	Chip, 330 ohms 1/8W	
R709	ERJ12YJ100H	Chip, 10 ohms 1/2W	
R711	ERJ8GEYJ152V	Chip, 1.5k ohms 1/8W	
R726	ERJ12YJ681H	Chip, 680 ohms 1/2W	
R727	ERJ12YJ681H	Chip, 680 ohms 1/2W	
R728	ERJ12YJ2R2H	Chip, 2.2 ohms 1/2W	
R729	ERJ3GEYJ152V	Chip, 1.5k ohms 1/16W	
R730	ERJ12YJ100H	Chip, 10 ohms 1/2W	
R731	ERX1SJ1R0	Chip, 1 ohms 1/2W	
R732	ERX3SJ390	Chip, 39 ohms 1/4W	T
R734	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R735	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R736	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R737	ERJ8GEYJ102V	Chip, 1k ohms 1/8W	
R738	ERJ8GEYJ102V	Chip, 1k ohms 1/8W	
R754	ERJ12YJ2R2H	Chip, 2.2 ohms 1/2W	
R755	ERJ6GEYJ391	Chip, 390 ohms 1/10W	
R790	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R791	ERJ6GEYJ272	Chip, 2.7k ohms 1/10W	
R792	ERJ6GEYJ272	Chip, 2.7k ohms 1/10W	
R793	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R803	ERJ3GEYJ472V	Chip, 4.7k ohms 1/16W	
R808	ERJ3GEYJ472V	Chip, 4.7k ohms 1/16W	
R809	ERJ3GEYJ472V	Chip, 4.7k ohms 1/16W	
R810	ERJ3GEYJ331V	Chip, 330 ohms 1/16W	

DOLBY BLOCK [E-4C176]

Ref. No.	Part No.	Part Name & Description	Remarks
R201	ERJ6GEYJ683	Chip, 68k ohms 1/10W	
R202	ERJ8GEYJ683V	Chip, 68k ohms 1/8W	
R203	ERJ6GEYJ391	Chip, 390 ohms 1/10W	
R204	ERJ6GEYJ334	Chip, 330k ohms 1/10W	
R205	ERJ6GEYJ123	Chip, 12k ohms 1/10W	
R206	ERJ6GEYJ183	Chip, 18k ohms 1/10W	
R207	ERJ6GEYJ220	Chip, 22 ohms 1/10W	
R350	ERJ6GEYJ683	Chip, 68k ohms 1/10W	
R351	ERJ8GEYJ683V	Chip, 68k ohms 1/8W	
R352	ERJ6GEYJ391	Chip, 390 ohms 1/10W	
R353	ERJ6GEYJ220	Chip, 22 ohms 1/10W	
R354	ERJ6GEYJ183	Chip, 18k ohms 1/10W	
R355	ERJ6GEYJ123	Chip, 12k ohms 1/10W	
R357	ERJ6GEYJ334	Chip, 330k ohms 1/10W	
R501	ERJ6GEYJ392	Chip, 3.9k ohms 1/10W	
R502	ERJ6GEYJ223	Chip, 22k ohms 1/10W	
R503	ERJ6GEYJ104	Chip, 100k ohms 1/10W	
R504	ERJ8GEYJ103V	Chip, 10kohms 1/8W	
R505	ERJ6GEYJ183	Chip, 18k ohms 1/10W	
R506	ERJ8GEYJ223V	Chip, 22k ohms 1/8W	
R507	ERJ8GEYJ102V	Chip, 1k ohms 1/8W	
R508	ERD25TJ223	Carbon, 22k ohms 1/4W	
R509	ERDS1FJ2R2	Carbon, 2.2 ohms 1/2W	
R511	ERJ6GEYJ103	Chip, 10k ohms 1/10W	
R512	ERJ8GEYJ103V	Chip, 10k ohms 1/8W	
R513	ERJ8GEYJ473V	Chip, 47k ohms 1/8W	
R514	ERJ6GEYJ473	Chip, 47k ohms 1/10W	
R515	ERJ6GEYJ822	Chip, 8.2k ohms 1/10W	
R516	ERJ6GEYJ822	Chip, 8.2k ohms 1/10W	
R517	ERJ8GEYJ121V	Chip, 120 ohms 1/8W	
R519	ERDS1FJ1R0	Carbon, 1 ohms 1/2W	
R520	ERDS2TJ1R2	Carbon, 1.8k ohms 1/4W	

INTERFACE BLOCK [E-4C174]

Ref. No.	Part No.	Part Name & Description	Remarks
R913	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R959	ERJ6GEYJ471	Chip, 470 ohms 1/10W	
R970	ERJ6GEYJ821	Chip, 820 ohms 1/10W	
R971	ERJ6GEYJ821	Chip, 820 ohms 1/10W	

DISPLAY BLOCK [E-4C175]

Ref. No.	Part No.	Part Name & Description	Remarks
R801	ERJ3GEYJ104V	Chip, 100k ohms 1/16W	
R802	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R803	ERJ3GEYJ243V	Chip, 24k ohms 1/16W	
R804	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R805	ERJ3GEYJ562V	Chip, 5.6k ohms 1/16W	
R813	ERJ3GEYJ472V	Chip, 4.7k ohms 1/16W	
R814	ERJ3GEYJ562V	Chip, 5.6k ohms 1/16W	
R815	ERJ3GEYJ562V	Chip, 5.6k ohms 1/16W	
R816	ERJ3GEYJ104V	Chip, 100k ohms 1/16W	
R817	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R818	ERJ3GEYJ243V	Chip, 24k ohms 1/16W	
R819	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R820	ERJ3GEYJ562V	Chip, 5.6k ohms 1/16W	
R828	ERJ3GEYJ472V	Chip, 4.7k ohms 1/16W	
R829	ERJ3GEYJ562V	Chip, 5.6k ohms 1/16W	
R830	ERJ3GEYJ562V	Chip, 5.6k ohms 1/16W	
R831	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R832	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R833	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R834	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R835	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R836	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R837	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R838	ERJ3GEYJ333V	Chip, 33k ohms 1/16W	
R839	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R840	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R841	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R842	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R843	ERJ3GEYJ333V	Chip, 33k ohms 1/16W	
R845	ERJ8GEYJ332V	Chip, 3.3k ohms 1/8W	
R846	ERJ3GEYJ332V	Chip, 3.3k ohms 1/16W	
R907	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R908	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R909	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R916	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R917	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R918	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R919	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R920	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R921	ERJ6GEYJ103	Chip, 10k ohms 1/10W	
R922	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R923	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R924	ERJ3GEYJ103V	Chip, 10k ohms 1/16W	
R927	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R928	ERJ3GEYJ473V	Chip, 47k ohms 1/16W	
R929	ERJ6GEYJ101	Chip, 100 ohms 1/10W	
R936	ERJ8GEYJ102V	Chip, 1k ohms 1/8W	
R939	ERJ8GEYJ102V	Chip, 1k ohms 1/8W	
R949	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R950	ERJ8GEYJ102V	Chip, 1k ohms 1/8W	
R951	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R952	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R953	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R954	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R955	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R956	ERJ8GEYJ102V	Chip, 1k ohms 1/8W	
R957	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R961	ERJ3GEYJ101V	Chip, 100 ohms 1/16W	
R962	ERJ3GEYJ101V	Chip, 100 ohms 1/16W	
R963	ERJ3GEYJ101V	Chip, 100 ohms 1/16W	
R964	ERJ3GEYJ101V	Chip, 100 ohms 1/16W	
R972	ERJ6GEYJ102	Chip, 1k ohms 1/10W	
R987	ERJ3GEYJ102V	Chip, 1k ohms 1/16W	
R990	ERJ3GEYJ471V	Chip, 470 ohms 1/16W	
R991	ERJ3GEYJ471V	Chip, 470 ohms 1/16W	
R992	ERJ3GEYJ471V	Chip, 470 ohms 1/16W	
R993	ERJ3GEYJ471V	Chip, 470 ohms 1/16W	
R994	ERJ3GEYJ471V	Chip, 470 ohms 1/16W	

1.5. Connectors

MAIN BLOCK [E-4C178-1]

Ref. No.	Part No.	Part Name & Description	Remarks
CN501	YEAE91736222	Connector, 22P	
CN603	YEAEK623214S	Connector, 14P	
CN604	YEAE4CDIN076	DIN Connector, 8P	T
CN705	YEAE012748	Connector, 16P	
CN902	YEAETKCF20PS	Connector, 20P	
CN203, 303	YEAE02166	RCA Jack (RCA * 4)	
CP750	YEAE4C01094	Connector, 3P	T

DOLBY BLOCK [E-4C176]

Ref. No.	Part No.	Part Name & Description	Remarks
CN204	YEAE012684	Connector, 5P	
CN502	YEAE9604L09S	Connector, 9P	
CN503	YEAE91736022	Connector, 22P	T
CN504	YEAE5325404	Connector, 4P	

INTERFACE BLOCK [E-4C174]

Ref. No.	Part No.	Part Name & Description	Remarks
CP902	YEAETKCF20XE	Connector, 20P	

Ref. No.	Part No.	Part Name & Description	Remarks
CN908	YEAESFW20R2E	Connector, 20P	T

DISPLAY BLOCK [E-4C175]

Ref. No.	Part No.	Part Name & Description	Remarks
CN909	YEAESFW20R1E	Connector, 20P	T

1.6. Electric Parts

SWITCHES

Ref. No.	Part No.	Part Name & Description	Remarks
SW501	YEAS08031B62	Switch	
SW901	YEVK404MD	Rotary Encoder	T
SW902	K0H1BA000285	Switch	
SW903	K0H1BA000285	Switch	
SW904	K0H1BA000285	Switch	
SW905	K0H1BA000285	Switch	
SW906	YEAS09312	Switch	
SW907	YEAS09312	Switch	
SW908	YEAS09312	Switch	
SW909	YEAS09312	Switch	
SW910	YEAS09312	Switch	
SW911	K0H1BA000285	Switch	
SW912	K0H1BA000285	Switch	
SW913	K0H1BA000285	Switch	
SW914	YEAS09312	Switch	
SW917	K0H1BA000285	Switch	
SW918	K0H1BA000285	Switch	
SW919	K0H1BA000285	Switch	
SW920	K0H1BA000285	Switch	
SW930	YEAS09316	Switch	

CRYSTALS

Ref. No.	Part No.	Part Name & Description	Remarks
XL602	YEXL4C419TT	CrystalOSC	T
XL801	YEXL4C2147TT	Crystal OSC	T
XL901	YEXLCR838M5T	Crystal OSC	

COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L50	YELT03N330JT	Coil	
L52	YELT03N101JT	Coil	
L53	YELT03N101JT	Coil	
L105	YELTBLM21A10	Coil	
L108	YELTBLM21A10	Coil	
L206	YELTBLM21A10	Coil	
L207	YELTBLM21A10	Coil	
L208	YELTBLM21A10	Coil	
L306	YELTBLM21A10	Coil	
L307	YELTBLM21A10	Coil	
L308	YELTBLM21A10	Coil	
L309	YELTBLM21A10	Coil	
L310	YELTBLM21A10	Coil	
L501	EXCCET103U	EMI Filter	
L502	EXCCET103U	EMI Filter	
L602	YELT03N101JT	Coil	
L604	YELT03N101JT	Coil	
L610	YELTBLM21A10	Coil	
L701	YELT03N101JT	Coil	
L704	YELT03N3R3JT	Coil	
L705	YETQ024C041V	Coil	T
L706	YELT03N101JT	Coil	
L710	ELEY100KA	Coil	
L801	YELTBLM21A10	Coil	
L802	YELTBLM21A10	Coil	
L803	YELTBLM21A10	Coil	
L804	YELTBLM21A10	Coil	
L805	YELTBLM21A10	Coil	
L806	YELTBLM21A10	Coil	
L807	YELTBLM21A10	Coil	
L901	YELTBLM21B10	Coil	
L903	YELTBLM21B10	Coil	

Ref. No.	Part No.	Part Name & Description	Remarks
L931	YELTD75F101T	Coil	
L932	YELT404MD	Transformer, Inverter	T

POSISTOR

Ref. No.	Part No.	Part Name & Description	Remarks
PH701	YERT7AR4R7MT	Posistor	
PH702	YERT7AR4R7MT	Posistor	

SURGE PROTECTOR

Ref. No.	Part No.	Part Name & Description	Remarks
Z51	YEADSPD201M	SurgeProtector	T
Z701	ERZG07DK470T	ZNR	T

LCD

Ref. No.	Part No.	Part Name & Description	Remarks
LCD901	YEXDCM4C074	LCD	T

1.7. Accessories

PRINTING

Ref. No.	Part No.	Part Name & Description	Remarks
	YFM284C299ZA	Operating Instructions	T

INSTALLATION PARTS

Ref. No.	Part No.	Part Name & Description	Remarks
	YAJ024C069ZA	Power Connector	T
	YFG044C001ZA	Transportation Bracket	T
1, 2	ZZBISVX404MD	Screws Kit	T

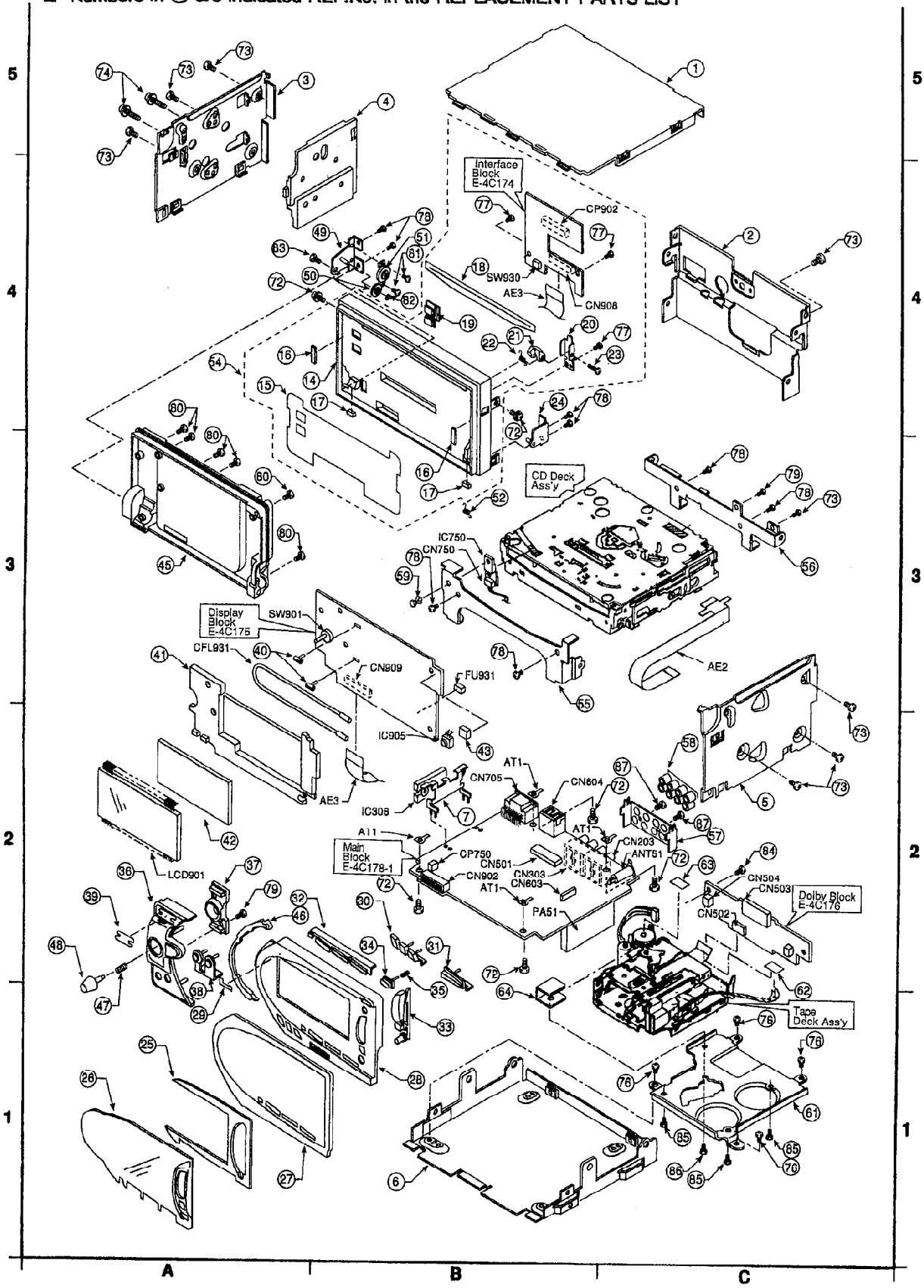
1.8. Mechanical Parts

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
F1 ⚠	XBB1F30NR5	Fuse, 3A	
F2 ⚠	XBB1F100NS5	Fuse, 10A	T
FU931 ⚠	YEAFSSFC1A	Fuse, 1A	
AE2	YEAEFFC012	Connector, 14P	T
AE3	YEAEFPC001	Connector, 20P	
ANT51	YAA104C700ZA	Antenna Receptacle	T
AT1	YEAT03420	Earth Terminal	
CFL931	YEAL404MD	Fluorescent Lamp	T
CN750	YEAE4C01095	Connector, w/Wire	T
1	YFA034C038ZA	Upper Cover	T(5-C)
2	YFA084C029YA	Rear Panel	T(4-C)
3	YEFA09639	Side Panel (L)	(5-A)
4	YEFF01982	Heatsink	(5-B)
5	YEFA09666	Side Panel (R)	T(2-C)
6	YFA054C031ZA	Chassis	T(1-B)
7	FX0214C229ZA	Bracket, IC306	T(2-B)
14	YFC024C465ZA	Escutcheon Holder	T(4-A)
15	YFV024C045ZA	Name Sheet	T(4-A)
16	YFS014C036ZA	Pad, OPEN	T(3-B) (4-A)
17	YFS014C035ZA	Pad, STOP	T(3-B) (4-B)
18	YEFS02328	Dust Felt	T(4-B)
19	YFE134C272ZA	Button, EJECT	T(4-B)
20	FX0214C222ZA	Hook Bracket	T(4-B)
21	YEFX9991846	Hook	T(4-B)
22	FX0054C035ZA	Spring, Hook	T(4-B)
23	YFW064C015ZA	Shaft, Hook	T(4-C)
24	FX0214C218ZA	Shaft Bracket Ass'y (R)	T(4-B)
25	YFX994C056YA	Adhesive Tape, Escutcheon(R)	T(1-A)
26	YEFJ011649	Clear Panel, Front(R)	T(1-A)
27	YFN994C001ZA	Frame, Front(R)	T(1-A)
28	YFC024C463ZA	Escutcheon, Front(R)	T(1-B)
29	YEFN07025	Badge, Panasonic	(1-A)
30	YEFE135816	Button, SA/DISP/SPL	T(2-B)
31	YEFE135740	Button, SOURCE	T(2-B)
32	YEFE135820	Button, 1-6	T(2-A)
33	YEFE135821	Button, VOL	T(1-B)
34	YFE134C271ZA	Button, OPEN	T(2-B)
35	FX0054C036ZA	Spring, OPEN Button	T(1-B)
36	YFC024C462ZA	Escutcheon, Front(L)	T(2-A)
37	FX0014C053ZA	Panel Light, DJ Encoder	T(2-A)
38	YFE134C273ZA	Button, AP/CLOCK	T(1-A)
39	YFV024C041ZA	Sheet	T(2-A)
40	YFS044C002ZA	Holder, Lamp	T(3-A)
41	FX0014C054ZA	Panel Light, LCD	T(3-A)
42	YFV024C042ZA	Sheet, LCD	T(2-A)
43	YFS014C032YA	Cushion	T(2-B)
45	YFC024C460ZA	Escutcheon Cover, Rear	T(3-A)
46	YEFX9992155	Panel Light	T(2-A)
47	FX0054C034ZA	Spring, DJ Knob	T(1-A)
48	YFE074C052ZA	Knob, DJ Encoder	T(2-A)
49	FX0214C220ZA	Shaft Bracket Ass'y (L)	T(4-B)
50	FX0034C001ZA	Gear, Damper	T(4-A)
51	YEFX9992165	Damper Gear Ass'y	T(4-B)
52	FX0054C033ZA	Spring, Escutcheon	T(3-B)
54	YFC024C464ZA	Escutcheon Holder Ass'y	T(4-A)
55	FX0214C224ZA	Bracket, CD (F)	T(3-B)
56	FX0214C223ZA	Bracket, CD (R)	T(3-C)
57	FX0214C230ZA	Bracket, RCA Connector	T(2-C)
58	YEFR044C007	Cap, RCA	T(2-C)
59	YEFJ05030	Color Rivet	(3-B)
61	FX0214C226ZA	Bracket, Cassette	T(1-C)
62	YFV024C037ZA	Sheet, Cassette	T(1-C)
63	YFR014C001ZA	Thermal Conductive Sheet	T(2-C)
64	YFF014C040ZA	Heatsink	T(1-B)
72	YEJT034C001	Screw	T
73	XTB3+6FFX	Tapping Screw, 3 * 6mm	
74	YEJT034C019	Screw, 3 * 12mm	T
76	XTB3+5FFX	Tapping Screw, 3 * 5mm	
77	XTN26+4.5C	Tapping Screw, 2 * 4.5mm	T
78	XTN26+8C	Tapping Screw, 2 * 6mm	T
79	XTN2+6C	Tapping Screw, 2 * 6mm	T
80	XTN2+8GFZ	Tapping Screw, 2 * 8mm	
81	XSB2+4FX	Bind Screw, 2 * 4mm	
82	YFW044C001ZA	Washer	T
83	YJT034C025ZA	Screw	T
84	XTW2+5FFXS	Screw,w/Washer, 3 * 6mm	T
85	YEJS03022	Screw	
86	XSB3+6FXS	Bind Screw, 3 * 6mm	
87	XTW3+10C	Screw	T

EXPLODED VIEW (Unit) MODEL CQ-VX303EW

■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST



1 CD PLAYER PARTS

Note :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
5. "A" marks in remarks column are indicated supply parts of Audio Division(AD) in Matsushita Electric Industrial Co., Ltd.(MEI)
6. "V" marks in remarks column are indicated supply parts of Video System Division(VSD) in Matsushita Electric Industrial Co., Ltd.(MEI)

IC's and Transistors

Ref. No.	Part No.	Part Name & Description	Remarks
IC1	AN8835SBE1	IC	V
IC2	MN662741RPA	IC	A
IC3	BA6795FPE2	IC	A
IC4	MB89193-233E	IC	A
Q1	2SA1037AKTXR	Transistor	V
Q2	DTC114TKT96	Transistor	V

Diodes

Ref. No.	Part No.	Part Name & Description	Remarks
D1	MA141WKTX	Diode	A

Capacitors

Ref. No.	Part No.	Part Name & Description	Remarks
C1	RC3X0JX226LE	Tantalum, 22MFD 6.3WV	V
C3	ECEA0JKA101I	Electrolytic, 100MFD 6.3WV	
C4	ECUV1E104ZFN	Chip, 0.1MFD 25WV	V
C5	ECUV1E104ZFN	Chip, 0.1MFD 25WV	V
C6	ECUV1E104MBN	Chip, 0.1MFD 25WV	V
C7	ECUV1E104MBN	Chip, 0.1MFD 25WV	V
C8	ECUV1H272KBN	Chip, 0.0027MFD 50WV	V
C9	ECUV1E273KBN	Chip, 0.027MFD 25WV	V
C10	ECUV1E104MBN	Chip, 0.1MFD 25WV	V
C11	ECUV1E104MBN	Chip, 0.1MFD 25WV	V
C12	ECUV1H222MBN	Chip, 0.0022MFD 50WV	V
C13	ECUV1H182KBN	Chip, 0.0018MFD 50WV	V
C14	ECUV1E104MBN	Chip, 0.1MFD 25WV	V
C15	ECUV1C473KBN	Chip, 0.047MFD 16WV	V
C16	ECUV1E223KBN	Chip, 0.022MFD 25WV	V
C17	ECUV1E273KBN	Chip, 0.027MFD 25WV	V
C18	ECUV1H471KBN	Chip, 470PF 50WV	V
C19	ECUV1E104MBN	Chip, 0.1MFD 25WV	V
C20	ECUV1E223KBN	Chip, 0.022MFD 25WV	V
C21	ECUV1C224KBM	Chip, 0.22MFD 16WV	V
C22	ECUV1C224KBM	Chip, 0.22MFD 16WV	V
C23	ECUV1H070DCN	Chip, 7PF 50WV	V
C24	ECUV1H220JCN	Chip, 22PF 50WV	V
C25	ECUV1E104ZFN	Chip, 0.1MFD 25WV	V
C26	ECUV1H102KBN	Chip, 0.001MFD 50WV	V
C27	ECUV1H102KBN	Chip, 0.001MFD 50WV	V
C28	ECUV1E223ZFN	Chip, 0.022MFD 25WV	V
C29	RCE0JPK221IG	Electrolytic, 220MFD 6.3WV	V
C30	ECUV1E154MBM	Chip, 0.15MFD 25WV	V
C33	RCE0JPK221IG	Electrolytic, 220MFD 6.3WV	V
C34	ECUV1H561KBN	Chip, 560PF 50WV	V
C35	ECEA0JKA101I	Electrolytic, 100MFD 6.3WV	
C36	ECEA1AKA221I	Electrolytic, 220MFD 10WV	
C37	ECUV1E104ZFN	Chip, 0.1MFD 25WV	V
C38	ECEA0JKA221I	Electrolytic, 220MFD 6.3WV	
C39	ECUV1E104ZFN	Chip, 0.1MFD 25WV	V
C40	ECUV1H472MBN	Chip, 0.0047MFD 50WV	V
C42	ECUV1E104ZFN	Chip, 0.1MFD 25WV	V
C44	ECUV1H331KBN	Chip, 330PF 50WV	V
C45	ECUV1E224ZFM	Chip, 0.22MFD 25WV	V
C56	ECUV1H221KBN	Chip, 220PF 50WV	A

Resistors

Ref. No.	Part No.	Part Name & Description	Remarks
R1	ERJ6GEYJ150	Chip, 15 OHMS 1/10W	
R2	ERJ6GEYJ221	Chip, 220 OHMS 1/10W	
R3	ERJ6GEYJ150	Chip, 15 OHMS 1/10W	
R5	ERJ6GEYJ330	Chip, 33 OHMS 1/10W	
R6	ERJ6GEYJ224	Chip, 220k OHMS 1/10W	
R7	ERJ6GEYJ184	Chip, 180k OHMS 1/10W	
R8	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R9	ERJ6GEYJ103	Chip, 10k OHMS 1/10W	
R10	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R11	ERJ6GEYJ103	Chip, 10k OHMS 1/10W	
R12	ERJ6GEYJ393	Chip, 39k OHMS 1/10W	
R13	ERJ6GEYJ183	Chip, 18k OHMS 1/10W	
R14	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R15	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R16	ERJ6GEYJ154	Chip, 150k OHMS 1/10W	
R17	ERJ6GEYJ683	Chip, 68k OHMS 1/10W	
R18	ERJ6GEYJ471	Chip, 470 OHMS 1/10W	
R20	ERJ6GEYJ101	Chip, 100OHMS 1/10W	
R21	ERJ6GEYJ220	Chip, 22 OHMS 1/10W	
R22	ERJ6GEYJ220	Chip, 22 OHMS 1/10W	
R23	ERJ6GEYJ822	Chip, 8.2k OHMS 1/10W	
R24	ERJ6GEYJ682	Chip, 6.8k OHMS 1/10W	
R25	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R26	ERJ6GEYJ333	Chip, 33k OHMS 1/10W	
R27	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R28	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R29	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R30	ERJ6GEYJ103	Chip, 10k OHMS 1/10W	
R31	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R32	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R33	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R34	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R35	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R36	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R37	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R39	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R40	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R41	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R42	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R43	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R44	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R45	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R46	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R47	ERJ6GEYJ121	Chip, 120 OHMS 1/10W	
R49	ERJ6GEYJ155V	Chip, 1.5M OHMS 1/10W	V
R50	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R51	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R52	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R53	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R54	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R55	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R56	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R57	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R58	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R62	ERJ6GEYJ272	Chip, 2.7k OHMS 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R63	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
RJ1	ERJ8GEY0R00V	Chip, 0 OHM 1/8W	
RJ2	ERJ8GEY0R00V	Chip, 0 OHM 1/8W	
RJ3	ERJ8GEY0R00V	Chip, 0 OHM 1/8W	
RJ4	ERJ8GEY0R00V	Chip, 0 OHM 1/8W	
RJ5	ERJ6GEYJ1R8V	Chip, 1.8 OHMS 1/10W	V
RJ6	ERJ6GEY0R00V	Chip, 0 OHM 1/10W	
RJ7	ERJ8GEY0R00V	Chip, 0 OHM 1/8W	

Oscillators

Ref. No.	Part No.	Part Name & Description	Remarks
X1	RVBCST4R00MT	Ceramic Oscilator	V
X2	RSXC16M9S01T	Crystal Oscilator	V

Connectors

Ref. No.	Part No.	Part Name & Description	Remarks
CN1	RJS2A1816T	Connector, 16P	V
CN2	RJS1A7114T	Connector, 14P	V
CN3	RJS1A7105T	Connector, 5P	V
CN4	RJP2G17ZA	Connector, 2P	V
CN5	RJS2A1405T	Connector, 5P	V

Switches

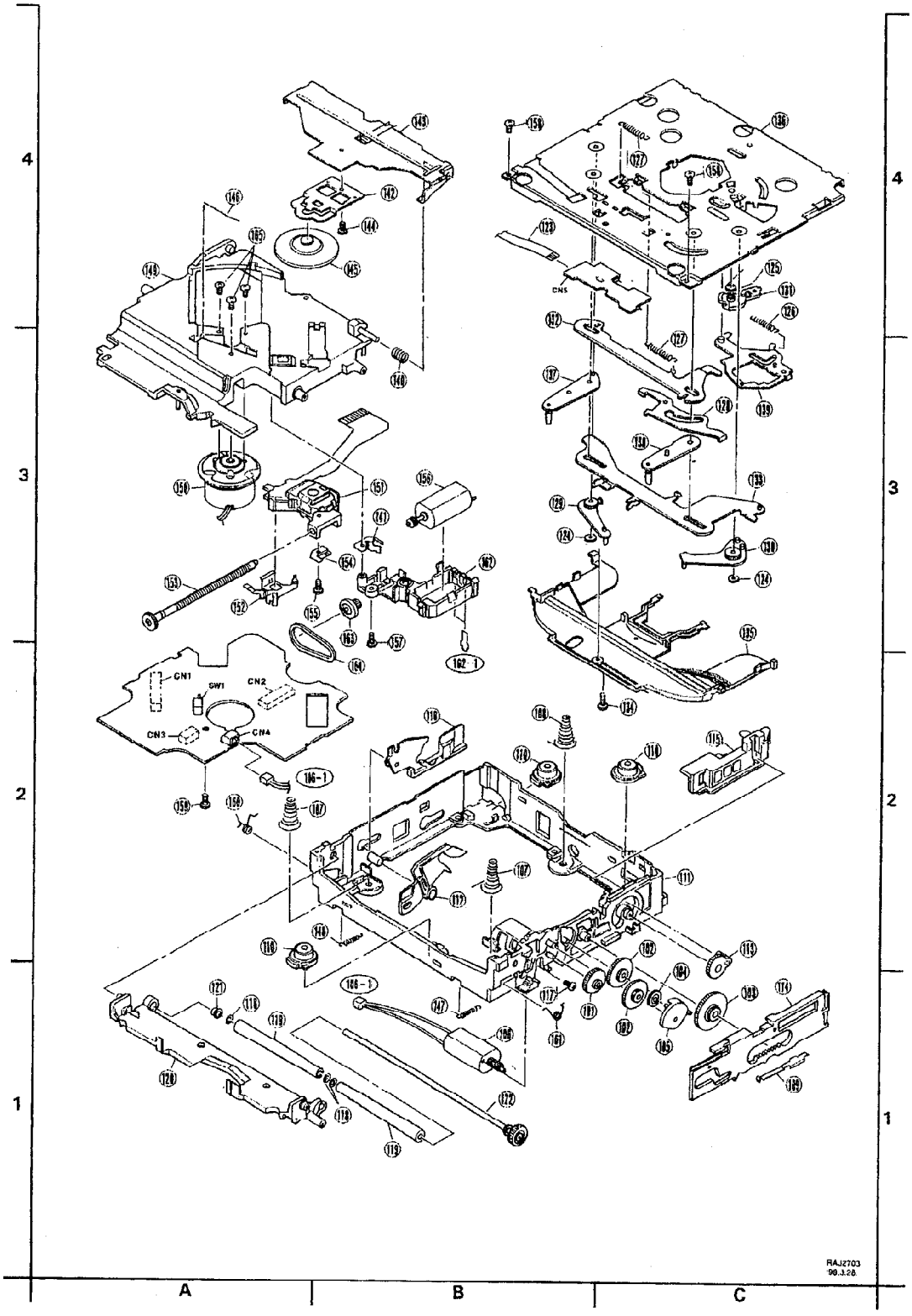
Ref. No.	Part No.	Part Name & Description	Remarks
SW1	ESE11SH2	Switch	V
SW2	RSP1A015-A	Switch	V
SW3	RSP1A015-A	Switch	V
SW4	RSP1A015-A	Switch	V
SW5	RSP1A015-A	Switch	V

Miscellaneous

Ref. No.	Part No.	Part Name & Description	Remarks
101	RDG0350	Gear	V (1-B)
102	RDG0351	Gear N2	V (1-C)
103	RDG0352-1	Loading Gear	V (1-C)
104	RDG0353	Roller Drive Gear	V (1-C)
105	RDG0354	Roller Drive Arm	V (1-C)
106	REM0060	Loading Motor	V (1-B)
106-1	REE0669	Lead Wire	V (2-A) (1-B)
107	RMB0465	Spring	V (2-A) (2-B)
108	RMB0466	Spring	V (2-A)
109	RMC0292	Main Slider Spring	V (1-C)
110	RMG0408-K	Insullator	V (2-A) (2-B)
111	RMK0309-2	Mechanism Frame	V (2-B)
112	RML0432	Lock Arm	V (2-B)
113	RML0433-1	Drive Arm	V (2-C)
114	RMR0952-W	Main Slider	V (1-C)
115	RMR0953-W	Lift Slider	V (2-C)
116	RMR0954-W	Lock Slider	V (2-B)
117	XYN2+C5	Screw, 2mm * 5mm	V (1-B)
118	RHW31005	Washer	V (1-A)
119	RMG0382-H	Rubber Roller	V (1-A)
120	RML0434	Roller Arm	V (1-A)
121	RMR0769-W	Roller Bering	V (1-A)
122	RXJ0017	Roller Shaft	V (1-B)
123	REE0668	Flexible PCB	V (4-B)
124	RHW27004	Washer	V (3-C)
125	RMB0461	Spring	V (4-C)
126	RMB0468	Spring	V (4-C)
127	RMB0489	Spring	V (4-C) (3-C)
128	RML0428	Switch Lever	V (3-C)
129	RML0430	Trigger Lever L	V (3-C)
130	RML0431	Trigger Lever R	V (3-C)
131	RML0435	Lock Lever	V (4-C)
132	RMM0155	Slider A	V (3-C)
133	RMM0156	Slider B	V (3-C)
134	RMQ0597	Screw	V (2-C)
135	RMR0951-W	Disc Guide	V (2-C)
136	RXK0201	Upper Chssis	V (4-C)
137	RXL0134	CD Detect Lever L	V (3-B)
138	RXL0135	CD Detect Lever R	V (3-C)
139	RXL0136	Control Arm	V (3-C)
140	RMB0462	Spring	V (3-B)
141	RMC0295	Drive Shaft Retainer	V (3-B)
142	RMC0293	Clamper Retainer	V (4-B)
143	RML0429	Clamp Arm	V (4-B)
144	RMQ0467	Screw	V (4-B)
145	RMR0956-W	Clamper	V (4-B)
146	RMB0345-2	Spring	V (4-A)
147	RMB0445	Spring	V (1-B)
148	RMB0467	Spring	V (2-B)
149	RXK0199	Traverse Chassis	V (4-A)
150	RFKPAJ2751K	Spindle Motor	V (3-A)
151	RAF0140A	Oprical Pickup	V (3-B)
152	RMC0294	Optical Pickup Retainer	V (3-A)
153	RXJ0018	Drive Shaft	V (3-A)
154	RXQ0474	Boad Nut	V (3-B)
155	XQN17+BG45	Screw	V (3-B)
156	REM0061	Traverse Motor	V (3-B)
157	XTW2+6S	Screw, 2mm * 6mm	V (3-B)
158	XQN2+CJ8	Screw, 2mm * 8mm	V (4-C)
159	XTW2+6S	Screw, 2mm * 6mm	V (2-A)
160	RMB0463	Spring	V (2-A)
161	RMB0464	Spring	V (1-B)
162	RXQ0476	Holder	V (3-B)
162-1	RMA0921	Terminal Board	V (3-B)
163	RDP0084	Pulley	V (3-B)
164	RDV0030	Belt	V (2-B)
165	RMQ0461	Screw	V (4-A)

EXPLODED VIEW (CD Deck) MODEL CQ-VX303EW

■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST



1 Tape Player Parts List

Note:

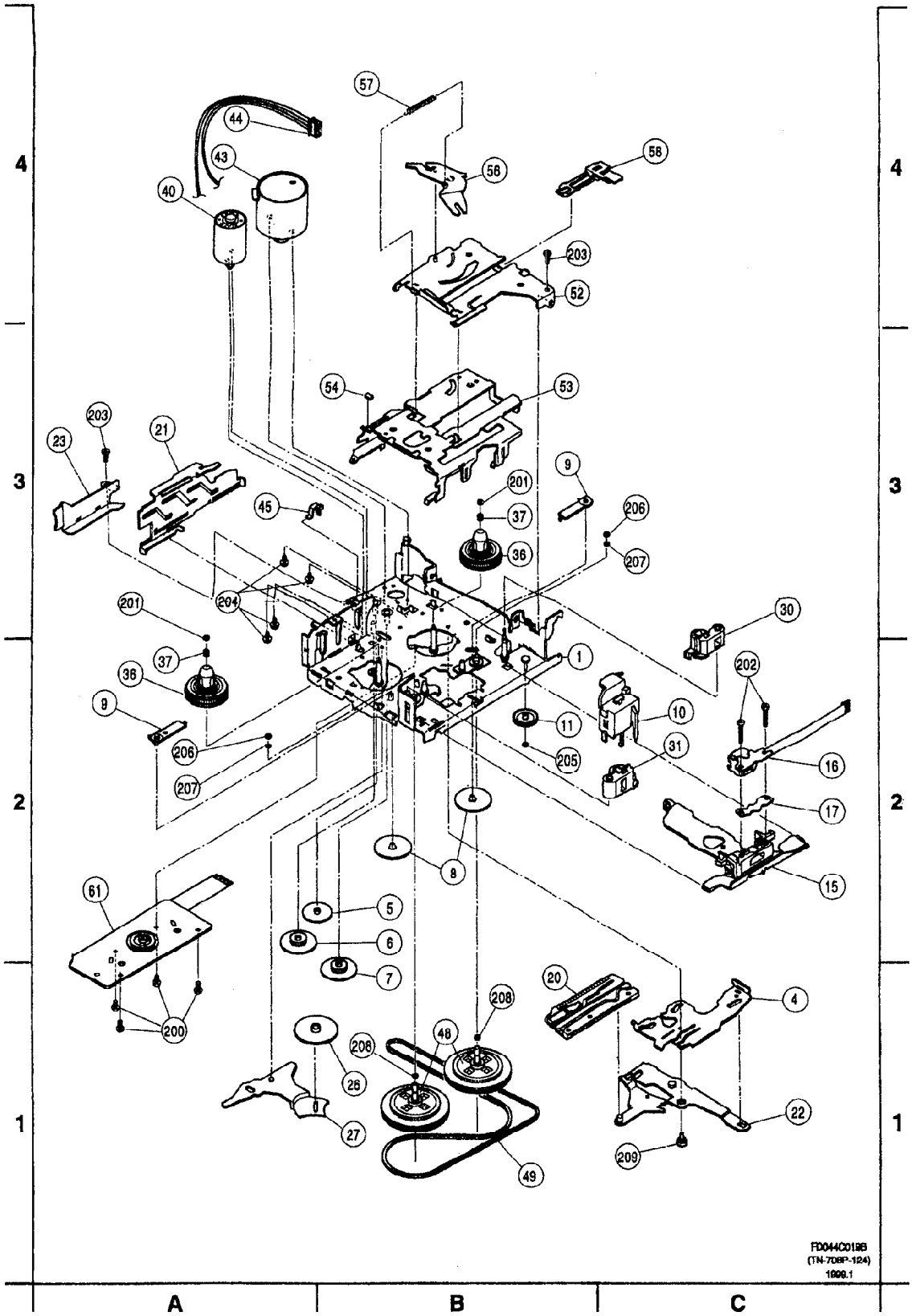
1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a load map.
4. "T" marks in remarks column are indicated supply parts of TAMACO.

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
1	YESFA01051	ChassisRivet Ass'y	(2-B)
4	YESFX046056	Main Plate	(1-C)
5	YESFX003049	B Gear	(2-B)
6	YESFX003050	C Gear	(2-B)
7	YESFX003051	D Gear	(1-B)
8	YESFX003052	P Gear	(2-B)
9	YESFX003053	P.G Plate	(2-A) (3-B)
10	YESFG02021	Guide BKT	(2-C)
11	YESFX026013	Middle Pulley	(2-B)
15	YESFX046057	Head Panel Ass'y	(2-C)
16	YESAH006	P.Head P-5544SD-9949	(2-C)
17	YESFX046058	Head SP Plate	(2-C)
20	YESFX046059	O.P Plate Ass'y	(1-B)
21	YESFX215015	Eject Lever Rivet Ass'y	(3-A)
22	YESFX046060	S.B Plate Rivet Ass'y	(1-C)
23	YESFX046061	O.P Plate Holder	(3-A)
26	YESFX003054	FR Gear	(1-B)
27	YESFX046062	FR Plate	(1-B)
30	YESFX218015	Pinch Roller Arm (F) Ass'y	(3-C)
31	YESFX218016	Pinch Roller Arm (R) Ass'y	(2-C)
36	YESFX209007	Reel Ass'y	(2-A) (3-B)
37	YESFX005074	B.Tension Spring (F)	(2-A) (3-B)
40	YESAK01013	Sub Motor Ass'y	(4-A)
43	YESAK01014	Main Motor Ass'y	(4-A)
44	YESAE283	M Connector Ass'y	(4-A)
45	YESFX006002	Wire Clamper	(3-A)
48	YESFX213004	FL Capstan Ass'y	(1-B)
49	YEFSFR03003	Main Belt	(1-B)
52	YESFX046064	Case Lifter	(4-A)
53	YESFX239006	Cassette Case	(3-B)
54	YESFS04007	Cusion Rubber	(3-B)
56	YESFX046065	P.S Actuator Plate	(4-A)
57	YESFX005075	P.S Spring	(4-A)
58	YESFX046066	Pack Slider	(4-C)
61	YESAP151	Reel PWB Ass'y	(2-A)
200	YESJS01133	CameraScrew (Tams) 2.0×2.2	(1-A)
201	YESJW01019	Lumilar Washer (Cut) 1.55×3.5×0.5	(3-A) (3-B)
202	YESJS01070	Adjust Screw 2.0×13	(2-C)
203	YEFT03084	Camera Tapping Screw S2.0×3.0	(3-A) (4-A)
204	YEJS06130	Tams Screw 2.0×3.0	(3-A)
205	YEJW05130	P.Washer (Cut) 0.85×2.8×0.25	(2-B)
206	YESJW01012	P.Washer (Cut) 1.55×3.5×0.5	(2-A) (3-C)
207	YESJW01013	P.Washer 2.1×3.5×0.2	(2-A) (3-C)
208	YESJW01014	Lumilar Washer 2.1×3.5×0.1	(1-B)
209	YESJS01091	PK Collar Screw A	(1-C)

EXPLODED VIEW (Tape Deck) MODEL CQ-VX303EW

■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST



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